



Product Catalog
U.S Standard LV NEMA Motor
(Severe Duty, IEEE841, Explosion proof)



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Products in Stock (Locations)

Pages	Offices	Warehouses
67	Houston, TX Atlanta, GA	La Porte, TX Duluth, GA Pewaukee, WI



HD HYUNDAI ELECTRIC

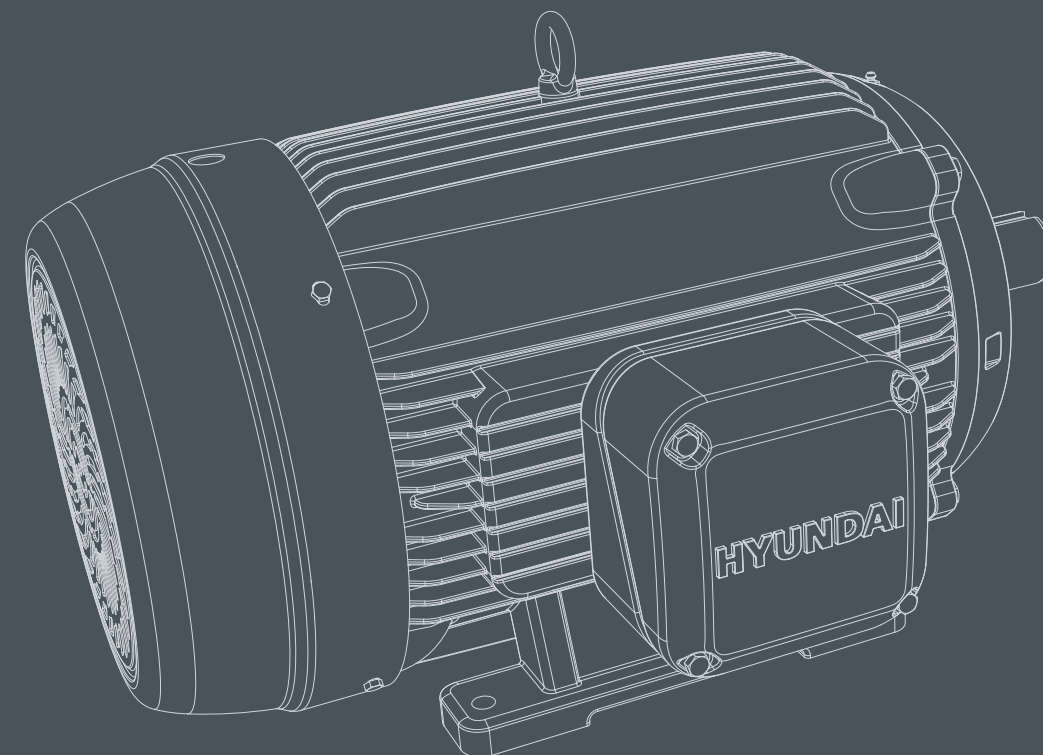
Provides our valued customers
with **HIGH QUALITY** electric motors
stocked in the **USA** at **FAIR PRICES**.

■ Please contact here

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Official website



HD HYUNDAI ELECTRIC

Essential for Today Potential for Tomorrow

As one of the affiliates of the HD HYUNDAI Group,
HD Hyundai Electric is a company established through the spin-off of the Electric and
Electronic Business Division of Hyundai Heavy Industry in April 2017.

Electrical Equipment business was launched in 1977
at the Heavy Electric System Business Division of Hyundai Heavy Industry;
it has been the leader in general electric & electronic systems and
energy solutions in Korea for the past 47 years.

Our talented minds have used their creativity and drive as a weapon to turn
the impossible into the possible and pioneer a new technological paradigm.
In addition, our talented minds have used their creativity and drive as
a weapon to turn the impossible into the possible and
pioneer a new technological paradigm.

Thanks to the 'Hyundai Spirit', comprising of the unique experience,
know-how, and sheer determination of our talented minds,
it is with great hope and joy that we launch Hyundai Electric.
HD Hyundai Electric is committed to growing our customers' businesses and
to growing with them.

To this end, we will provide the highest quality products, solutions,
and services to increase our customers' productivity and efficiency.
Valued customers follow us as HD Hyundai Electric becomes
the nation's leading energy solutions provider.

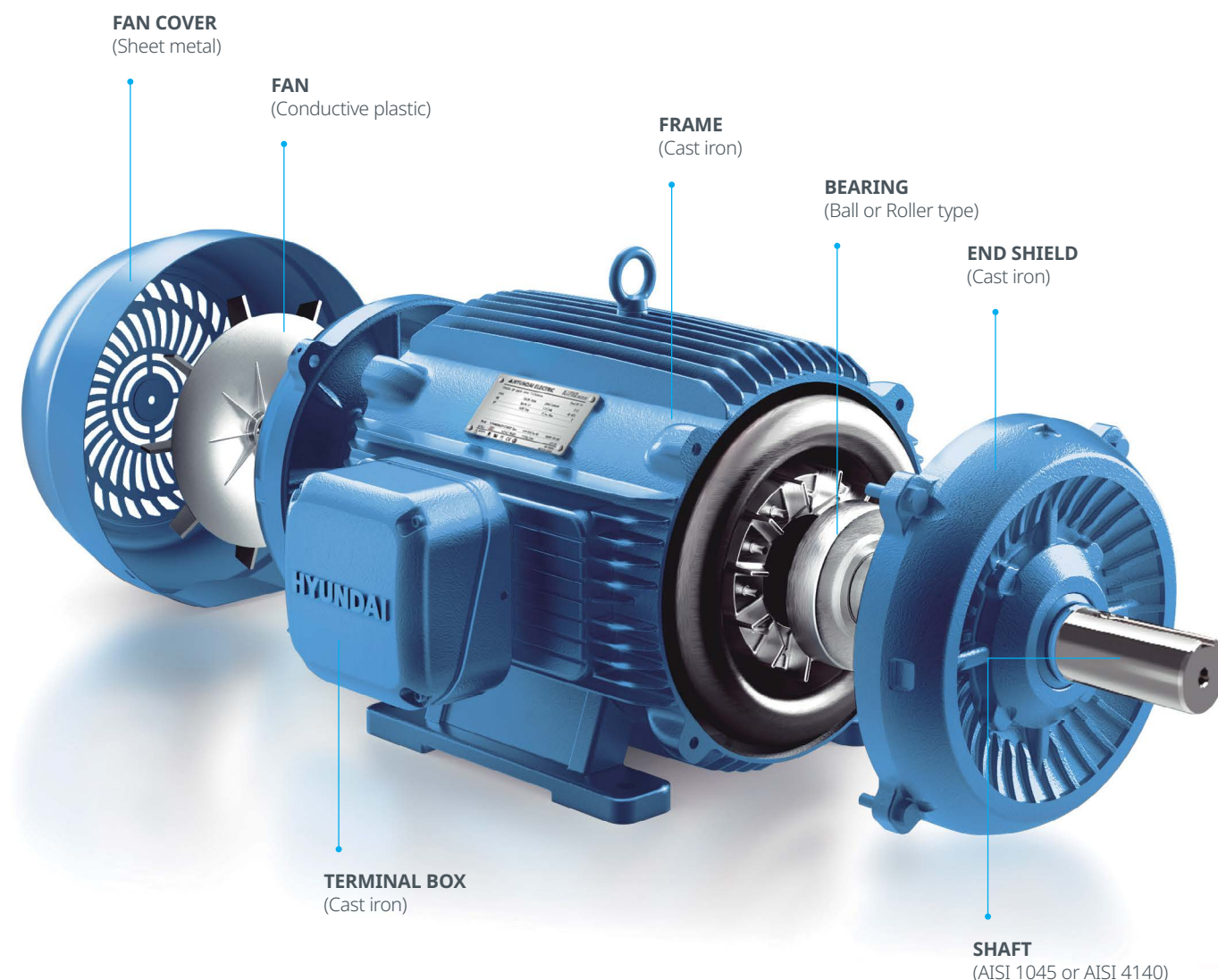
Overview

ELECTRIC MOTOR

The electric motor is an electric system that converts electric energy into mechanical energy by making use of electromagnetic energy to supply rotational force.

Electric motors drive pumps, fans, compressors & general applications at every industrial facility with electric power supplied through transformer and distribution systems.

Structural stability is the prominent requirement when considering product characteristics and modification of the apparent shape is limited due to specified dimensions, distance and thickness.

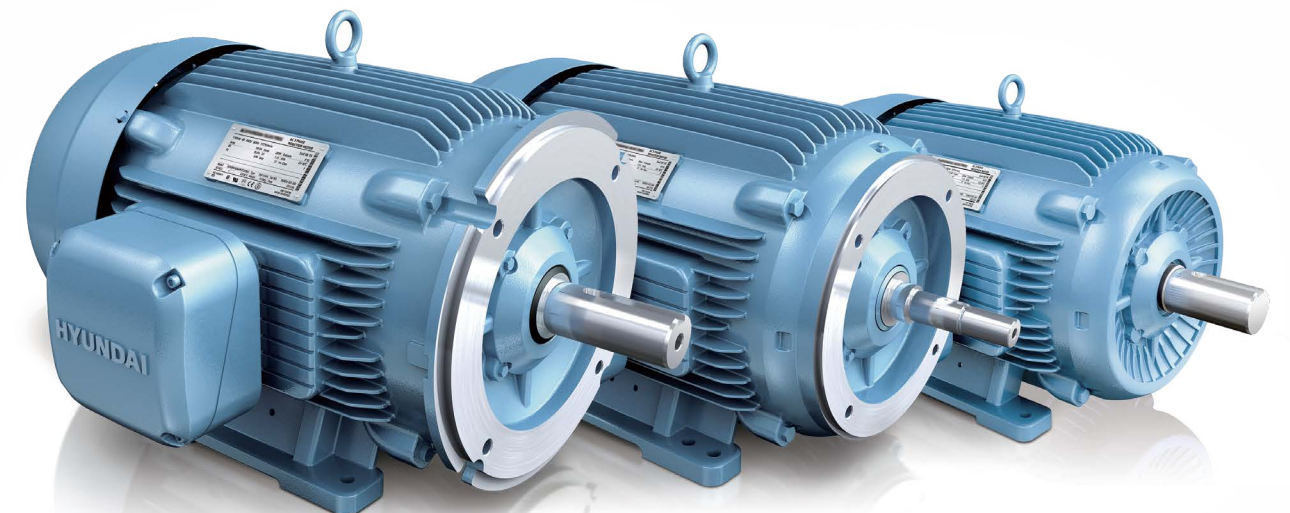


HD HYUNDAI ELECTRIC NEMA Severe duty Low Voltage Induction Motors



Continuous design evolutions for Electric Motor developed through years of experience, innovation and reliability in building top quality

Our state-of-the-art manufacturing facilities guarantee that all products meet customers' requirements with regard to cost, delivery and quality



Features

- Motor maintenance optimization
- Premium efficiency, Low temperature rise
- High Lifetime
- Top skilled electrical & mechanical performances



Product Line-up

Severe duty series for NEMA Standard
Make-to-order(MTO) manufacturing for IEC Standard

NEMA Standard Motor

Type	Product Family	HP	RPM	Frame	Suffix
Severe Duty	HES	1 - 50	12/18/36	140 - 326	BB : Ball Bearing
	HHI	60 - 250	12/18/36	360 - 449	IB : Insulation Bearing on N-DE 2IB : Insulation Bearing on DE & N-DE
	HSDE	300 - 900	12/18/36	L449 - 580	BR : Bearing RTDs (1 EA/Bearing) with Auxiliary Terminal Box
IEEE841	IEEE	1 - 50	12/18/36	140 - 326	SR : Stator RTDs (2 EA/Ph.) with Auxiliary Terminal Box
	IEEE	60 - 250	12/18/36	360 - 449	SH : Space Heater (1 Set/Motor) with Auxiliary Terminal Box
	IEEE	300 - 900	12/18/36	L449 - 580	SP : Spare part (Cooling Fan)
Explosion Proof	IXHHI	1 - 50	12/18/36	140 - 326	LL : Long Lead Cable
	IXHHI	60 - 250	12/18/36	360 - 449	F : Temp. rise-F

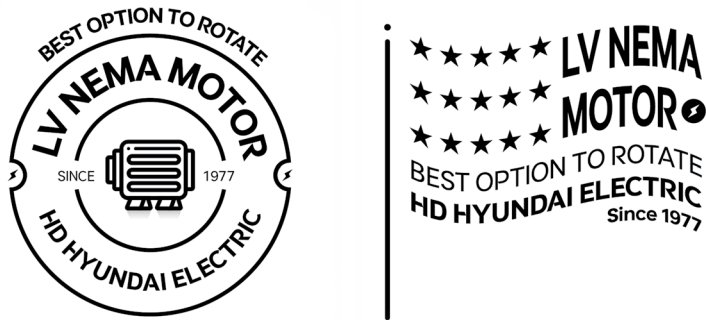
Warranty

We guarantee the warranty period of all products based on world-class quality, performance, and reliability.

NEMA Standard Model	Warranty Period
Severe Duty Series	3 Years from Date of shipment
Explosion Proof Series	3 Years from Date of shipment
IEEE841 Series	5 Years from Date of shipment

HD Hyundai Electric Aims

We provide our valued customers with HIGH QUALITY electric motors stocked in the USA at FAIR PRICES.



U.S Standard
LV NEMA Motor

Severe Duty - HES, HHI Model
Premium Efficiency



Product Electrical Features

HYUNDAI Product Type	HES Model	Fr. 143 - 326
	HHI Model	Fr. 364 - 449
Common	Motor power (HP)	1 HP - 250 HP
	Speed (RPM)	3600, 1800 or 1200
	Frequency	60 Hz
	Altitude	3,300 ft.
	Ambient temp.	40 °C
	Enclosure	Totally Enclosed (Protection : IP55)
	Method of Cooling	IC411 (FC)
	Efficiency	NEMA Premium
	Duty	Continuous (S1)
	Design	NEMA Design B Torque
Voltage	Insulation Class	F (Impregnation Resin & Magnet wire : Class H) Inverter duty, Exceeds NEMA MG-1 Part 31
	230/460 V	1 HP - 125 HP
	380 V, 400 V, 415 V	1 HP - 250 HP at 50 Hz
	460 V	150 HP - 250 HP
	575 V	1 HP - 250 HP
Temp. rise	Sine Wave Power	B
	VFD Power	F
Service Factor	Sine Wave Power	1.15
	VFD Power	1.0
Inverter duty	Temp. rise F & Non-hazardous	1.25 (Up to Fr. 143 - 365)
	Variable Torque 6 - 60 Hz	Applicable
	Variable Torque 3 - 60 Hz	Applicable at 50 % Load
	Constant Torque 6 - 60 Hz	Applicable
	Constant HP	CHP up to 1.5 times base speed

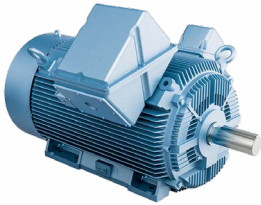
Product Mechanical Features

Mounting	Foot mount (B3)	Foot drilled hole(s)
	C-face with Foot (B35)	Applicable
	D-flange with Foot (B35)	Applicable
	C-face without Foot (B5, V1)	Applicable
	D-flange without Foot (B5, V1)	Applicable
Material	Frame	Cast-iron
	Rotor	Aluminum die casting
	End-shield	Cast-iron
	Fan	Non-sparking conductive plastic fan
	Fan cover	Steel
Rotation	Bi-directional	Applied
	Drive end	Ball or Roller I Regreasable (Fr. 324 - 449)
Bearing	Non-Drive end	Ball I Regreasable (Fr. 324 - 449)
	Protection	V-seal
	Inner Bearing Cap	Applied I Fr. 364 - 449
	Lubrication	Polyurea (Polyrex EM grease)
	Material	AISI 1045
Shaft	DE threaded hole	Applied
	DE Keyway	Opened keyway
	Shaft locking device	Frames with Roller bearing (To prevent Bearing brinelling)
Terminal box	Material	Cast-iron
	Mounting (F1 or F2)	F1 to F2 conversion available
	Cable hole plug	Plastic
Lead cable	Number of lead wire(s)	9 lead(s) I Fr. 143 - 215
	Number of lead wire(s)	12 lead(s) I Fr. 254 - 445(~125HP)
	Number of lead wire(s)	6 lead(s) I Fr. 445 - 449(150HP~)
Drain Plug	Frame	Both sides of frame bottom
	Main Terminal Box	None
	Grease outlet	Fr. 324 - 449
Tap provision	For Vib. Sensor	Fr. 364 - 449
	For B.T.D	Fr. 364 - 449
Certification	CSA	Class I, Division 2 Class II, Division 2 CSA C-390 Groups A, B, C & D *** Note (1) Groups E, F & G *** Note (2)
	DOE	Certi. #CC0038A Premium Efficiency
	CE	Department of Energy Efficiency CE Declaration of Conformity
	IEEE45	EN 60034-1 Marine Duty
	UL	ABS Product Type Approval #E211828
Name plate	Markings	RU, CSA, CC(DOE), CE, IEEE45
	Material	Stainless Steel AISI304
Painting	Type	Polyurethane top coat
	Color	Munsell 4,0PB5,4/5.5
Common	Lifting device	Eye bolt(s)
	Warranty	3 Years from Date of shipment

※ Notes (1)
1) Temp. code at Sine Wave Power : T3C (Fr. 143 - 326)
T3B (Fr. 364 - 405)
T3A (Fr. 444 - 449)
2) Temp. code at VFD Power : T3 (Fr. 143 - 449)

※ Notes (2)
1) Group E : Fr. 143 - 326
2) Group F&G : Fr. 143 - 449

Severe Duty - HSDE Model (Large motors)
Premium Efficiency



Product Electrical Features

HYUNDAI Product Type	HSDE Model	Fr. L449 - 5812
Common	Motor power (HP)	250 HP - 900 HP
	Speed (RPM)	3600, 1800 or 1200
	Frequency	60 Hz
	Altitude	3,300 ft.
	Ambient temp.	40 °C
	Enclosure	Totally Enclosed (Protection : IP55)
	Method of Cooling	IC411 (FC)
	Efficiency	NEMA Premium
	Duty	Continuous (S1)
	Design	NEMA Design B Torque
Voltage	Insulation Class	F (Impregnation Resin & Magnet wire : Class H)
		Inverter duty, Exceeds NEMA MG-1 Part 31
	380 V, 400 V, 415 V	Applicable at 50 Hz
	460 V	Applicable
Temp. rise	575 V	Applicable
	Sine Wave Power	B
Service Factor	VFD Power	F
	Sine Wave Power	1.15
Inverter duty	VFD Power	1.0
	Variable Torque 6 - 60 Hz	Applicable
	Variable Torque 3 - 60 Hz	Fr. L449 - 5011 at 50 % Load
	Constant Torque 6 - 60 Hz	Fr. L449 - 5011
	Constant Torque 30 - 60 Hz	Fr. 5812
	Constant HP	Fr. L449 - 5011

Product Mechanical Features

Mounting	Foot mount (B3)		Foot drilled hole(s)
	C-face with Foot (B35)		Applicable
	D-flange with Foot (B35)		Applicable
	C-face without Foot (V1)		Applicable
	D-flange without Foot (V1)		Applicable
Material	Frame		Cast-iron
	Rotor		Aluminum die casting or Centrifugal cast aluminum
	End-shield		Cast-iron
	Fan		Non-sparking conductive plastic fan
	Fan cover		Steel
Rotation	Bi-directional		Fr. L449 - 5812 at 1800, 1200 RPM
	Uni-directional		Fr. L449 - 5812 at 3600 RPM
	Drive end		Ball or Roller I Regreasable
Bearing	Non-Drive end		Ball or Insulation I Regreasable
	Protection	Labyrinth seal	Fr. L449 - 5812 at 3600 RPM
		V-seal	Fr. L449 - 5812 at 1800, 1200 RPM
	Inner Bearing Cap		Applied
	Lubrication		Polyurea (Polyrex EM grease)
Shaft	Material	AISI 1045	Fr. L449 at 3600 RPM
		AISI 4140	Fr. L449 - 5812 at 1800, 1200 RPM
	DE threaded hole		Applied
	DE Keyway		Opened keyway
	Shaft locking device		Frames with Roller bearing (To prevent Bearing brinelling)
Terminal box	Material	Cast-iron	Fr. L449 - 5011
		Fabricated Steel	Fr. 5811/12
	Mounting	Cast-iron	F1 or F2
Lead cable		Fabricated Steel	F1 or F2
	Cable hole plug		Plastic
Accessories	Number of lead wire(s)		6 Lead(s)
	W.T.D (PT 100 Ohm)		2 EA / phase
	B.T.D (PT 100 Ohm)		1 EA / Bearing
Drain Plug	Space Heater		1 EA / Motor
	Auxiliary Terminal box		2 EA / Motor
	Frame		Both sides of frame bottom
Tap provision	Main Terminal Box		None
	Grease outlet		Applied
	For Vib. Sensor		Applied
Certification	For B.T.D	Applied	Applied
		Class I, Division 2	Groups A, B, C & D *** Note (1)
		Class II, Division 2	Groups E , F & G *** Note (2)
	CSA C-390		Premium Efficiency (Up to 500 HP)
	DOE	Certi. #CC0038A	Department of Energy Efficiency
Name plate	CE	EN 60034-1	CE Declaration of Conformity
	IEEEE45	ABS Product Type Approval	Marine Duty (Up to 600 HP / Fr. L449 - 5011)
	UL		
Painting	Markings		CSA,CC(DOE), CE
	Material		Stainless Steel AISI304
	Type		Polyurethane top coat
Common	Color		Munsell 4.0PB5.4/5.5
	Lifting device		Eye bolt(s)
Explosion proof	Warranty		3 Years from Date of shipment

※ Notes (1)
1) Temp. code at Sine Wave Power : T3 (Fr. L449 - 5011)
T3A (Fr. 5812)
2) Temp. code at VFD Power : T3 (Fr. L449 - 5011)

※ Notes (2)
1) Group F&G : Fr. L449 - 5011

IEEE841 - HL Model
Premium Efficiency



Product Electrical Features

HYUNDAI Product Type	IEEE841 - HL Model	Fr. 143 - 449
Common	Motor power (HP)	1 HP - 250 HP
	Speed (RPM)	3600, 1800 or 1200
	Frequency	60 Hz
	Altitude	3,300 ft.
	Ambient temp.	40 °C
	Enclosure	Totally Enclosed (Protection : IP55)
	Method of Cooling	IC411 (FC)
	Efficiency	NEMA Premium
	Duty	Continuous (S1)
	Design	NEMA Design B Torque
Voltage	Insulation Class	F (Impregnation Resin & Magnet wire : Class H)
		Inverter duty, Exceeds NEMA MG-1 Part 31
	380 V, 400 V, 415 V	Applicable at 50 Hz
	460 V	Applicable
Temp. rise	575 V	Applicable
	Sine Wave Power	B
Service Factor	VFD Power	F
	Sine Wave Power	1.15
Inverter duty	VFD Power	1.0
	Temp. rise F & Non-hazardous	1.25 (Up to Fr. 143 - 365)
	Variable Torque 6 - 60 Hz	Applicable
	Variable Torque 3 - 60 Hz	Applicable at 50 % Load
	Constant Torque 6 - 60 Hz	Applicable
	Constant HP	CHP up to 1.5 times base speed

Product Mechanical Features

Mounting	Foot mount (B3)		Foot drilled hole(s)
	C-face with Foot (B35)		Applicable
	D-flange with Foot (B35)		Applicable
	C-face without Foot (B5, V1)		Applicable
	D-flange without Foot (B5, V1)		Applicable (Except V1 for Fr. 143 - 145)
Material	Frame		Cast-iron
	Rotor		Aluminum die casting
	End-shield		Cast-iron
	Fan		Non-sparking conductive plastic fan
	Fan cover		Cast iron
Rotation	Bi-directional		Applicable
	Drive end		Ball or Roller I Regreasable
Bearing	Non-Drive end		Ball I Regreasable
	Protection		ProTech seal
	Inner Bearing Cap		Applied
	Lubrication		Polyurea (Polyrex EM grease)
	Material		AISI 1045
Shaft	DE threaded hole		Applied
	DE Keyway		Opened keyway
	Shaft locking device		Frames with Roller bearing (To prevent Bearing brinelling)
Terminal box	Material		Cast-iron
	Mounting (F1 or F2)		F1 to F2 conversion available
Lead cable	Cable hole plug		Plastic
	Number of lead wire(s)		3 lead(s) I Fr. 143 - 326
Drain Plug	Number of lead wire(s)		6 lead(s) I Fr. 364 - 449
	Frame		Both sides of frame bottom
Tap provision	Main Terminal Box		None
	Grease outlet		Fr. 364 - 449
	For Vib. Sensor		Fr. 364 - 449
Certification	For B.T.D	For B.T.D	For B.T.D
		CSA	Class I, Division 2
		Class II, Division 2	Groups A, B, C & D *** Note (1)
	DOE	CSA C-390	Groups E , F & G *** Note (2)
	CE	Certi. #CC0038A	Premium Efficiency
Name plate	IEEEE45	EN 60034-1	Department of Energy Efficiency
	UL	ABS Product	CE Declaration of Conformity
		Ordinary location	Marine Duty IEEE45
Painting	Markings		#E211828
	Material		RU, CSA,CC(DOE), CE, IEEE45
Common	Type		Stainless Steel AISI304
	Color		Epoxy Zinc with Polyurethane top coat
Explosion proof	Munsell 7.5BG6/1.5		Munsell 7.5BG6/1.5
	Eye bolt(s)		Eye bolt(s)
Explosion proof	Warranty		5 Years from Date of shipment

※ Notes (1)
1) Temp. code at Sine Wave Power : T3C (Fr. 143 - 326)
T3B (Fr. 364 - 405)
T3A (Fr. 444 - 449)
2) Temp. code at VFD Power : T3 (Fr. 143 - 449)

※ Notes (2)
1) Group E : Fr. 143 - 326
2) Group F&G : Fr. 143 - 449

U.S Standard
LV NEMA Motor

IEEE841 - XL Model (Large motor) Premium Efficiency



Product Electrical Features

HYUNDAI Product Type	IEEE841 - XL Model	Fr. L449 - 5812
Common	Motor power (HP)	250 HP - 900 HP
	Speed (RPM)	3600, 1800 or 1200
	Frequency	60 Hz
	Altitude	3,300 ft.
	Ambient temp.	40 °C
	Enclosure	Totally Enclosed (Protection : IP55)
	Method of Cooling	IC411 (FC)
	Efficiency	NEMA Premium
	Duty	Continuous (S1)
	Design	NEMA Design B Torque
Voltage	Insulation Class	F (Impregnation Resin & Magnet wire : Class H)
	380 V, 400 V, 415 V	Inverter duty, Exceeds NEMA MG-1 Part 31
	460 V	Applicable at 50 Hz
	575 V	Applicable
Temp. rise	Sine Wave Power	B
	VFD Power	F
Service Factor	Sine Wave Power	1.15
	VFD Power	1.0
Inverter duty	Variable Torque 6 - 60 Hz	Applicable
	Variable Torque 3 - 60 Hz	Fr. L449 - 5011 at 50 % Load
	Constant Torque 6 - 60 Hz	Fr. L449 - 5011
	Constant Torque 30 - 60 Hz	Fr. 5812
	Constant HP	Fr. L449 - 5011

Product Mechanical Features

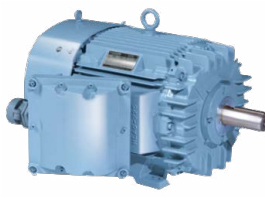
Mounting	Foot mount (B3)		Foot drilled hole(s)
	C-face with Foot (B35)		Applicable
	D-flange with Foot (B35)		Applicable
	C-face without Foot (V1)		Applicable
	D-flange without Foot (V1)		Applicable
Material	Frame		Cast-iron
	Rotor		Aluminum die casting or Centrifugal cast aluminum
	End-shield		Cast-iron
	Fan		Non-sparking conductive plastic fan
	Fan cover		Fabricated steel
Rotation	Bi-directional		Fr. L449 - 5812 at 1800, 1200 RPM
	Uni-directional		Fr. L449 - 5812 at 3600 RPM
	Drive end		Ball or Roller I Regreasable
	Non-Drive end		Ball or Insulation I Regreasable
Bearing	Protection	Labyrinth seal	Fr. L449 - 5812 at 3600 RPM
		ProTech seal	Fr. L449 - 5812 at 1800, 1200 RPM
	Inner Bearing Cap		Applied
	Lubrication		Polyurea (Polyrex EM grease)
	Material	AISI 1045	Fr. L449 at 3600 RPM
Shaft			Fr. L449 - 5812 at 1800, 1200 RPM
	DE threaded hole		Applied
	DE Keyway		Opened keyway
	Shaft locking device		Frames with Roller bearing (To prevent Bearing brinelling)
Terminal box	Material	Cast-iron	Fr. L449 - 5011
		Fabricated Steel	Fr. 5812
		Cast-iron	F1 or F2
	Mounting	Cast-iron	F1 or F2
		Fabricated Steel	F1 or F2
Lead cable	Cable hole plug		Plastic
	Number of lead wire(s)		6 Lead(s)
	W.T.D (PT 100 Ohm)		2 EA / phase
	B.T.D (PT 100 Ohm)		1 EA / Bearing
Accessories	Space Heater		1 EA / Motor
	Auxiliary Terminal box		2 EA / Motor
Drain Plug	Frame		Both sides of frame bottom
	Main Terminal Box		None
	Grease outlet		Applied
	For Vib. Sensor		Applied
Tap provision	For B.T.D		Applied
Certification	CSA	Class I, Division 2	Groups A, B, C & D *** Note (1)
		Class II, Division 2	Groups E , F & G *** Note (2)
		CSA C-390	Premium Efficiency (Up to 500 HP)
	DOE	Certi. #CC0038A	Department of Energy Efficiency
	CE	EN 60034-1	CE Declaration of Conformity
Name plate	IEEE45	ABS Product Type Approval	Marine Duty (Up to 600 HP / Fr. L449 - 5011)
	Markings		CSA, CC(DOE), CE
	Material		Stainless Steel AISI304
Painting	Type		Epoxy Zinc with Polyurethane top coat
	Color		Munsell 7.5BG6/1.5
	Lifting device		Eye bolt(s)
Common			5 Years from Date of shipment
	Warranty		

※ Notes (1)
1) Temp. code at Sine Wave Power : T3 (Fr. L449 - 5011)
T3A (Fr. 5812)
2) Temp. code at VFD Power : T3 (Fr. L449 - 5011)

※ Notes (2)
1) Group F&G : Fr. L449 - 5011

U.S Standard
LV NEMA Motor

Explosion proof Premium Efficiency



Product Electrical Features

HYUNDAI Product Type	IXHHI	Fr. 143 - 449
Common	Motor power (HP)	1 HP - 250 HP
	Speed (RPM)	3600, 1800 or 1200
	Frequency	60 Hz
	Altitude	3,300 ft.
	Ambient temp.	40 °C
	Enclosure I Protection	Totally Enclosed (Protection : IP55)
	Method of Cooling	IC411 (FC)
	Efficiency	NEMA Premium
	Duty	Continuous (S1)
	Design	NEMA Design B Torque
Voltage	Insulation Class	F (Impregnation Resin & Magnet wire : Class H)
	230/460 V	Inverter duty, Exceeds NEMA MG-1 Part 31
	380 V, 400 V, 415 V	1 HP - 125 HP
	460 V	Applicable at 50 Hz
Temp. rise	575 V	150 HP - 250 HP
	Sine Wave Power	Applicable
Service Factor	VFD Power	B
	Sine Wave Power	F
Inverter duty	VFD Power	1.15
	Sine Wave Power	1.0
Inverter duty	Temp. rise F & Non-hazardous	1.25 (Up to Fr. 143 - 365)
	Variable Torque 6 - 60 Hz	Applicable
	Variable Torque 3 - 60 Hz	Applicable at 50 % Load
	Constant Torque 10.5 - 60 Hz	Fr. 143 - 215
	Constant Torque 15 - 60 Hz	Fr. 254 - 449
	Constant Torque 6 - 60 Hz	Fr. 143 - 449 at 1 hour duty
	Constant HP	CHP up to 1.5 times base speed

Product Mechanical Features

Mounting	Foot mount (B3)		Foot drilled hole(s)
	C-face with Foot (B35)		Fr. 143 - 326
	C-face without Foot (B5, V1)		Fr. 143 - 326
Material	Frame		Cast-iron
	Rotor		Aluminum die casting
	End-shield		Cast-iron
	Fan		Non-sparking conductive plastic fan
	Fan cover		Steel
Rotation	Bi-directional		Applicable
	Drive end		Ball or Roller I Regreasable (Fr. 254 - 449)
Bearing	Non-Drive end		Ball I Regreasable (Fr. 254 - 449)
	Protection	V-seal	Fr. 143 - 326
		Labyrinth	Fr. 364 - 449
	Inner Bearing Cap		Applied
	Lubrication		Polyurea (Polyrex EM grease)
Shaft	Material		AISI 1045
	DE threaded hole		Applied
	DE Keyway		Opened keyway
	Shaft locking device		Frames with Roller bearing (To prevent Bearing brinelling)
	Material		Cast-iron
Terminal box	Mounting (F1 or F2)		F1 to F2 conversion available
	Cable hole plug		Plastic
Lead cable	Number of lead wire(s)		9 lead(s) I Fr. 143 - 215
	Number of lead wire(s)		12 lead(s) I Fr. 254 - 445(~125HP)
	Number of lead wire(s)		6 lead(s) I Fr. 445 - 449(150HP~)
Accessories	W.T.D (Thermostat)		1 EA / phase (145 °C)
Drain Plug	Frame		Both sides of frame bottom
	Main Terminal Box		None
	Grease outlet		Fr. 254 - 449
	For Vib. Sensor		Fr. 364 - 449
Tap provision	For B.T.D		Fr. 364 - 449
	UL	Class I, Division 1	Group C & D *** Note (1)
		Class II, Division 1	Group F & G *** Note (2)
	CSA	CSA C-390	Premium Efficiency
	DOE	Certi. #CC0038A	Department of Energy Efficiency
Name plate	CE	EN 60034-1	CE Declaration of Conformity
	Markings		UL LISTED, CSA, CC(DOE), CE
Painting	Material		Stainless Steel AISI304
	Type		Polyurethane top coat
	Color		Munsell 4.0PB5,4/5.5
Common	Lifting device		Eye bolt(s)
	Warranty		3 Years from Date of shipment

※ Notes (1)
1) Temperature code : T2C (Fr. 143 - 215)
T2D (Fr. 254 - 286)
T3 (Fr. 354 - 449)
T4 (Fr. 143 - 449) with Thermostat

※ Notes (2)
1) Temperature code : T3B (Fr. 143 - 326)

U.S Standard
LV NEMA Motor

HES Model -
Severe duty, Premium Efficiency
Three phase, TEFC, Foot mounted



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

Foot Mounted NEMA Dimensions

Frame Size	Mounting & Overall										AD (Approx.)	HD (Approx.)	C (Approx.)	Shaft & Keyway					Conduit Box AA	Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H				U	N-W	R	S	ES		
143T	3.5	5.5	1.47	6.81	0.47	(5)	4	6.14	2.25	0.34	11.03	8.8	12.97	0.875	2.25	0.771	0.188	1.41	3/4"	A
145T	3.5	5.5	1.47	6.81	0.47	5	(4)	6.14	2.25	0.34	11.03	8.8	12.97	0.875	2.25	0.771	0.188	1.41	3/4"	
182T	4.5	7.5	1.64	8.65	0.6	(5.5)	4.5	6.69	2.75	0.41	12.79	10.73	15.59	1.125	2.75	0.986	0.25	1.78	3/4"	
184T	4.5	7.5	1.64	8.65	0.6	5.5	(4.5)	6.69	2.75	0.41	12.79	10.73	15.59	1.125	2.75	0.986	0.25	1.78	3/4"	
213T	5.25	8.5	1.69	9.88	0.66	5.5	-	6.69	3.5	0.41	14.56	12.32	18.31	1.375	3.38	1.201	0.312	2.41	1"	
215T	5.25	8.5	1.72	9.91	0.68	7	-	8.19	3.5	0.41	14.56	12.32	19.73	1.375	3.38	1.201	0.312	2.41	1"	
254T	6.25	10	2.13	11.69	0.72	8.25	-	9.57	4.25	0.53	18.43	14.75	23.54	1.625	4.00	1.416	0.375	2.91	1 1/4"	
256T	6.25	10	2.13	11.69	0.72	10	-	11.30	4.25	0.53	18.43	14.75	25.28	1.625	4.00	1.416	0.375	2.91	1 1/4"	
284TS	7	11	2.40	12.99	0.78	9.5	-	11.18	4.75	0.53	19.84	16.25	25.35	1.625	3.25	1.416	0.375	1.91	1 1/2"	
284T	7	11	2.40	12.99	0.78	9.5	-	11.18	4.75	0.53	19.84	16.25	26.72	1.875	4.62	1.591	0.5	3.28	1 1/2"	
286TS	7	11	2.40	12.99	0.78	11	-	12.68	4.75	0.53	19.84	16.25	27.28	1.625	3.25	1.416	0.375	1.91	1 1/2"	B
286T	7	11	2.40	12.99	0.78	11	-	12.68	4.75	0.53	19.84	16.25	28.22	1.875	4.62	1.591	0.5	3.28	1 1/2"	
324TS	8	12.5	2.52	14.72	1.03	(12)	10.5	13.78	5.25	0.66	23.18	18.55	29.72	1.875	3.75	1.591	0.5	2.03	2"	
324T	8	12.5	2.52	14.72	1.03	(12)	10.5	13.78	5.25	0.66	23.18	18.55	31.22	2.125	5.25	1.845	0.5	3.91	2"	
326TS	8	12.5	2.52	14.72	1.03	12	(10.5)	13.78	5.25	0.66	23.18	18.55	29.72	1.875	3.75	1.591	0.5	2.03	2"	
326T	8	12.5	2.52	14.72	1.03	12	(10.5)	13.78	5.25	0.66	23.18	18.55	31.22	2.125	5.25	1.845	0.5	3.91	2"	

U.S Standard
LV NEMA Motor

HHI Model -
Severe duty, Premium Efficiency
Three phase, TEFC, Foot mounted



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

Foot Mounted NEMA Dimensions

Frame Size	Mounting & Overall										AD (Approx.)	HD (Approx.)	C (Approx.)	Shaft & Keyway					Conduit Box AA	Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H				U	N-W	R	S	ES		
364TS	9	14	2.72	16.14	0.98	(12.25)	11.25	14.92	5.88	0.66	26.24	21.3	31.88	1.875	3.75	1.591	0.5	2.03	2 1/2"	A
364T	9	14	2.72	16.14	0.98	(12.25)	11.25	14.92	5.88	0.66	26.24	21.3	34.01	2.375	5.88	2.021	0.625	4.28	3"	
365TS	9	14	2.72	16.14	0.98	12.25	(11.25)	14.92	5.88	0.66	26.24	21.3	31.88	1.875	3.75	1.591	0.5	2.03	2 1/2"	
365T	9	14	2.72	16.14	0.98	12.25	(11.25)	14.92	5.88	0.66	26.24	21.3	34.01	2.375	5.88	2.021	0.625	4.28	3"	
404T	10	16	3.03	18.43	1.18	(13.75)	12.25	16.46	6.62	0.81	30.36	24.34	39.42	2.875	7.25	2.45	0.75	5.65	3"	B
405TS	10	16	3.03	18.43	1.18	13.75	(12.25)	16.46	6.62	0.81	30.36	24.34	36.42	2.125	4.25	1.845	0.5	2.8	3"	
405T	10	16	3.03	18.43	1.18	13.75	(12.25)	16.46	6.62	0.81	30.36	24.34	39.42	2.875	7.25	2.45	0.75	5.65	3"	
444TS	11	18	3.07	20.51	1.42	(16.5)	14.5	19.21	7.5	0.81	32.46	27.52	41.46	2.375	4.75	2.021	0.625	3.03	3"	
444T	11	18	3.07	20.51	1.42	(16.5)	14.5	19.21	7.5	0.81	32.46	27.52	45.21	3.375	8.5	2.88	0.875	6.93	3"	
445TS	11	18	3.07	20.51	1.42	16.5	(14.5)	19.21	7.5	0.81	32.46	27.52	41.46	2.375	4.75	2.021	0.625	3.03	3"	
445T	11	18	3.07	20.51	1.42	16.5	(14.5)	19.21	7.5	0.81	32.46	27.52	45.21	3.375	8.5	2.88	0.875	6.93	3"	
447TS	11	18	3.07	20.51	1.42	20	(17.99)	22.72	7.5	0.81	32.46	27.52	44.96	2.375	4.75	2.021	0.625	3.03	3"	
447T	11	18	3.07	20.51	1.42	20	(17.99)	22.72	7.5	0.81	32.46	27.52	48.71	3.375	8.5	2.88	0.875	6.93	3"	
449TS	11	18	3.07	20.51	1.42	25	(20)	27.72	7.5	0.81	32.46	27.52	50.08	2.375	4.75	2.021	0.625	3.03	3"	
449T	11	18	3.07	20.51	1.42	25	(20)	27.72	7.5	0.81	32.46	27.52	53.83	3.375	8.5	2.88	0.875	6.93	3"	

Fig. A
364/5Fr.

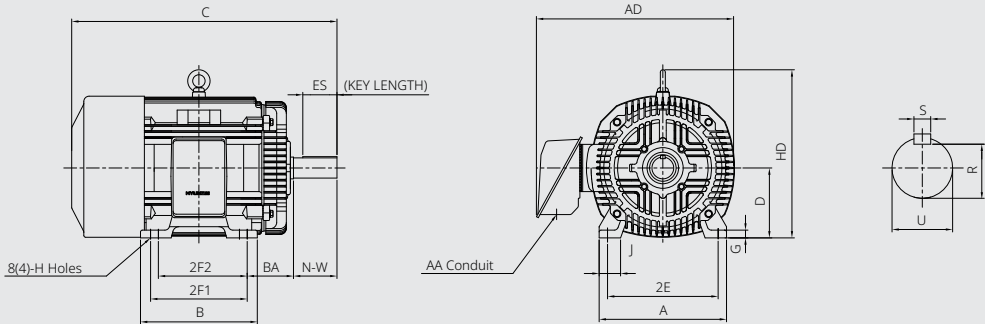


Fig. B
404 - 449Fr.

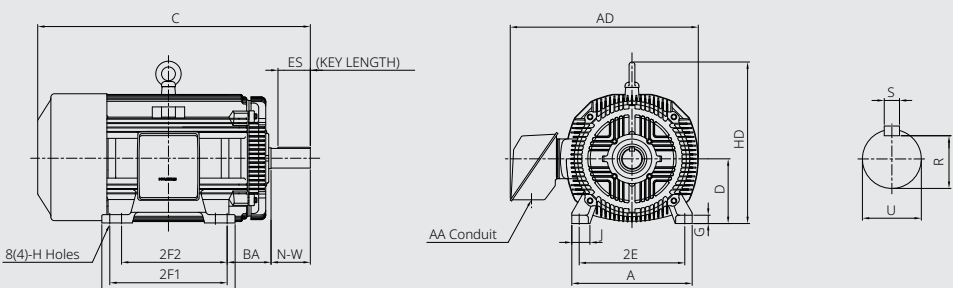
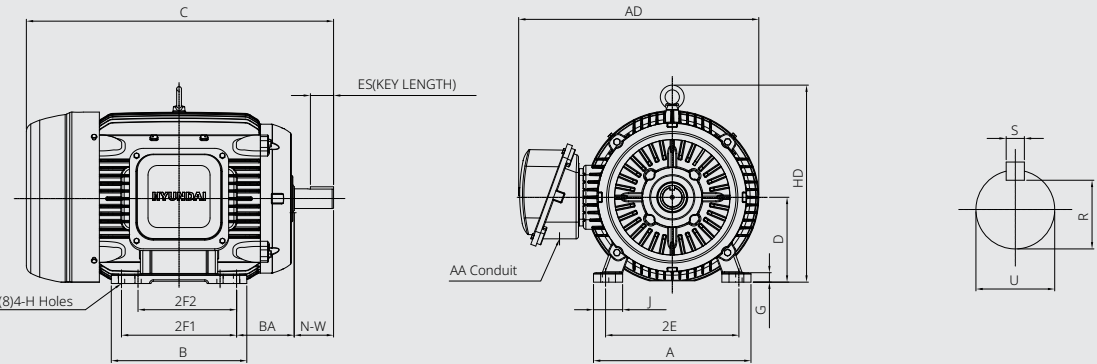
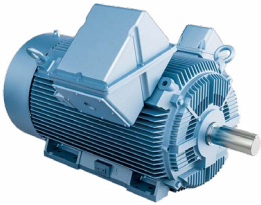


Fig. A
143 - 326Fr.



HSDE Model -
Severe duty, Premium Efficiency, Large Motor
Three phase, TEFC, Foot mounted



Features

- Cast-iron terminal box
 - Fully rotatable at 90 increments
- Fabricated steel terminal box (Fr. 5812)

Foot Mounted NEMA Dimensions

Frame Size	Mounting & Overall										AD (Approx.)	HD (Approx.)	C (Approx.)	Shaft & Keyway					Conduit Box AA	Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H				U	N-W	R	S	ES		
L449TS	11	18	3.58	22.05	1.18	25	(20)	30.7	7.5	0.81	40.8	34.37	55.89	2.375	4.75	2.021	0.625	3.03	4"	A
L449T-4P	11	18	3.58	22.05	1.18	25	(20)	30.7	7.5	0.81	40.8	34.37	55.18	3.375	8.5	2.88	0.875	6.93	4"	
L449T-6P	11	18	3.58	22.05	1.18	25	(20)	30.7	7.5	0.81	40.8	34.37	59.98	3.375	8.5	2.88	0.875	6.93	4"	
5008S	12.5	20	4.88	25.04	1.26	(28)	25	33.07	8.5	0.94	42.01	36.3	62.03	2.625	5.75	2.275	0.625	4	4"	
5008	12.5	20	4.88	25.04	1.26	(28)	25	33.07	8.5	0.94	42.01	36.3	67.96	3.875	11.625	3.309	1	10	4"	
5009S	12.5	20	4.88	25.04	1.26	28	(25)	33.07	8.5	0.94	42.01	36.3	62.03	2.625	5.75	2.275	0.625	4	4"	
5009	12.5	20	4.88	25.04	1.26	28	(25)	33.07	8.5	0.94	42.01	36.3	67.96	3.875	11.625	3.309	1	10	4"	
5010S	12.5	20	4.88	25.04	1.26	(36)	32	41	8.5	0.94	42.01	36.3	67.54	2.625	5.75	2.275	0.625	4	4"	
5010	12.5	20	4.88	25.04	1.26	(36)	32	41	8.5	0.94	42.01	36.3	70.84	3.875	11.625	3.309	1	10	4"	
5011S	12.5	20	4.88	25.04	1.26	36	(32)	41	8.5	0.94	42.01	36.3	67.54	2.625	5.75	2.275	0.625	4	4"	
5011	12.5	20	4.88	25.04	1.26	36	(32)	41	8.5	0.94	42.01	36.3	70.84	3.875	11.625	3.309	1	10	4"	B
5812S-2P	14.5	23	5.85	29.53	1.97	45	40	51.77	10	1.18	51.87	40.4	82.04	2.875	6.75	2.45	0.75	6.55	4"	
5812-4P	14.5	23	5.85	29.53	1.97	45	40	51.77	10	1.18	51.87	40.4	83.6	4.375	8.3	3.817	1	8.05	4"	
5812-6P	14.5	23	5.85	29.53	1.97	45	40	51.77	10	1.18	51.87	40.4	83.6	4.375	8.3	3.817	1	8.05	4"	

Fig. A
L449 - 5011Fr.

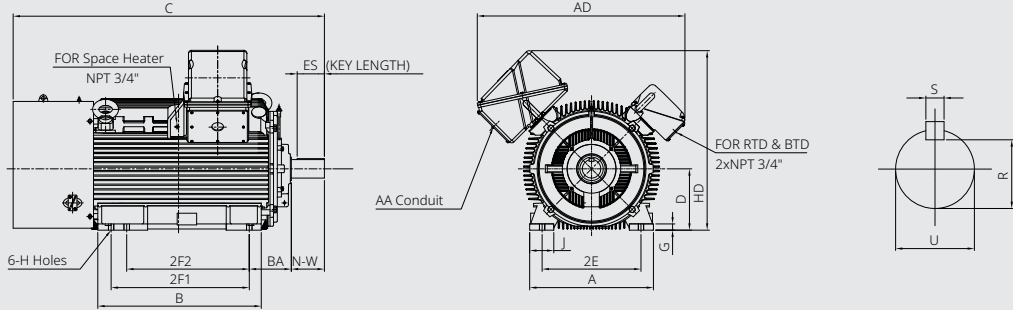
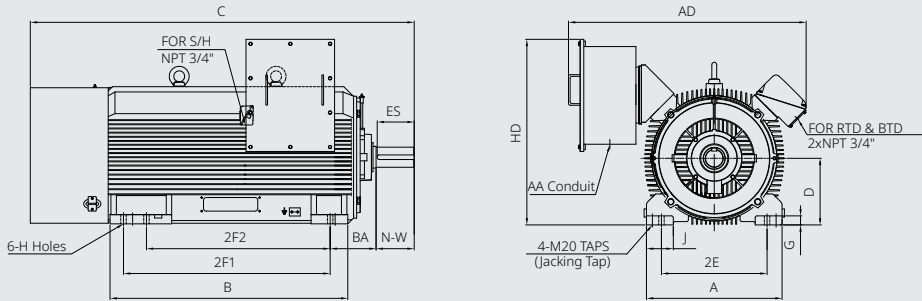


Fig. B
5812Fr.



HES Model -
Severe duty, Premium Efficiency
Three phase, TEFC, C-Face, Foot mounted



Features

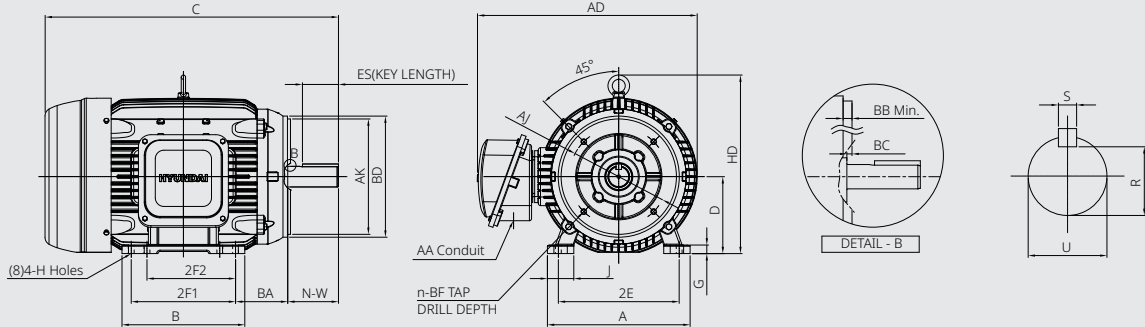
- Cast-iron terminal box
 - Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

C-Face, Foot Mounted NEMA Dimensions

Frame Size	Mounting & Overall									AD (Approx.)	HD (Approx.)	C (Approx.)	Conduit Box AA	Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H				
143TC	3.5	5.5	1.47	6.81	0.47	(5)	4	6.14	2.25	0.34	11.03	8.8	12.96	A
145TC	3.5	5.5	1.47	6.81	0.47	5	(4)	6.14	2.25	0.34	11.03	8.8	12.96	
182TC	4.5	7.5	1.64	8.65	0.6	(5.5)	4.5	6.69	2.75	0.41	12.79	10.73	15.59	
184TC	4.5	7.5	1.64	8.65	0.6	5.5	(4.5)	6.69	2.75	0.41	12.79	10.73	15.59	
213TC	5.25	8.5	1.72	9.91	0.68	5.5	-	6.69	3.5	0.41	14.56	12.32	18.31	
215TC	5.25	8.5	1.72	9.91	0.68	7	-	8.19	3.5	0.41	14.56	12.32	19.73	
254TC	6.25	10	2.13	11.69	0.72	8.25	-	9.57	4.25	0.53	18.43	14.75	23.54	
256TC	6.25	10	2.13	11.69	0.72	10	-	11.30	4.25	0.53	18.43	14.75	25.27	
284TSC	7	11	2.40	12.99	0.78	9.5	-	11.18	4.75	0.53	19.84	16.25	25.35	
284TC	7	11	2.40	12.99	0.78	9.5	-	11.18	4.75	0.53	19.84	16.25	26.72	
286TSC	7	11	2.40	12.99	0.78	11	-	12.68	4.75	0.53	19.84	16.25	26.84	A
286TC	7	11	2.40	12.99	0.78	11	-	12.68	4.75	0.53	19.84	16.25	28.21	
324TSC	8	12.5	2.52	14.72	1.03	(12)	10.5	13.78	5.25	0.66	23.18	18.55	29.72	
324TC	8	12.5	2.52	14.72	1.03	(12)	10.5	13.78	5.25	0.66	23.18	18.55	31.22	
326TSC	8	12.5	2.52	14.72	1.03	12	(10.5)	13.78	5.25	0.66	23.18	18.55	29.72	
326TC	8	12.5	2.52	14.72	1.03	12	(10.5)	13.78	5.25	0.66	23.18	18.55	31.22	

Frame Size	C-Face								Shaft & Keyway					Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	U	N-W	R	S	ES(Length)	
143TC	5.875	4.50	0.18	0.12	6.5	3/8-16	4	0.56	0.875	2.25	0.771	0.188	1.41	A
145TC	5.875	4.50	0.18	0.12	6.5	3/8-16	4	0.56	0.875	2.25	0.771	0.188	1.41	
182TC	7.25	8.50	0.28	0.12	8.85	1/2-13	4	0.75	1.125	2.75	0.986	0.25	1.78	
184TC	7.25	8.50	0.28	0.12	8.85	1/2-13	4	0.75	1.125	2.75	0.986	0.25	1.78	
213TC	7.25	8.50	0.25	0.25	8.81	1/2-13	4	0.75	1.375	3.38	1.201	0.312	2.41	
215TC	7.25	8.50	0.25	0.25	8.81	1/2-13	4	0.75	1.375	3.38	1.201	0.312	2.41	
254TC	7.25	8.50	0.28	0.25	9.25	1/2-13	4	0.75	1.625	4.00	1.416	0.375	2.91	
256TC	7.25	8.50	0.28	0.25	9.25	1/2-13	4	0.75	1.625	4.00	1.416	0.375	2.91	
284TSC	9.0	10.50	0.28	0.25	11.02	1/2-13	4	0.75	1.625	3.25	1.416	0.375	1.91	
284TC	9.0	10.50	0.28	0.25	11.02	1/2-13	4	0.75	1.875	4.62	1.591	0.5	3.28	
286TSC	9.0	10.50	0.28	0.25	11.02	1/2-13	4	0.75	1.625	3.25	1.416	0.375	1.91	A
286TC	9.0	10.50	0.28	0.25	11.02	1/2-13	4	0.75	1.875	4.62	1.591	0.5	3.28	
324TSC	11.0	12.50	0.28	0.25	12.99	5/8-11	4	0.94	1.875	3.75	1.591	0.5	2.03	
324TC	11.0	12.50	0.28	0.25	12.99	5/8-11	4	0.94	2.125	5.25	1.845	0.5	3.91	
326TSC	11.0	12.50	0.28	0.25	12.99	5/8-11	4	0.94	1.875	3.75	1.591	0.5	2.03	
326TC	11.0	12.50	0.28	0.25	12.99	5/8-11	4	0.94	2.125	5.25	1.845	0.5	3.91	

Fig. A
143 - 326Fr.



HES Model -
Severe duty, Premium Efficiency
Three phase, TEFC, C-Face, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

C-Face, Footless NEMA Dimensions

Frame Size	C-Face								Overall			Conduit Box	Shaft & Keyway					Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)	
143TCRD	5.875	4.50	0.18	0.12	6.50	3/8-16	4	0.56	11.03	9.30	12.96	3/4"	0.875	2.25	0.771	0.188	1.41	A
145TCRD	5.875	4.50	0.18	0.12	6.50	3/8-16	4	0.56	11.03	9.30	12.96	3/4"	0.875	2.25	0.771	0.188	1.41	
182TCRD	7.25	8.50	0.28	0.12	8.85	1/2-13	4	0.75	12.79	11.15	15.59	3/4"	1.125	2.75	0.986	0.250	1.78	
184TCRD	7.25	8.50	0.28	0.12	8.85	1/2-13	4	0.75	12.79	11.15	15.59	3/4"	1.125	2.75	0.986	0.250	1.78	
213TCRD	7.25	8.50	0.25	0.25	8.81	1/2-13	4	0.75	14.56	12.09	18.31	1"	1.375	3.38	1.201	0.312	2.41	
215TCRD	7.25	8.50	0.25	0.25	8.81	1/2-13	4	0.75	14.56	12.09	19.73	1"	1.375	3.38	1.201	0.312	2.41	
254TCRD	7.25	8.50	0.28	0.25	9.25	1/2-13	4	0.75	18.43	14.67	23.54	1 1/4"	1.625	4.00	1.416	0.375	2.91	
256TCRD	7.25	8.50	0.28	0.25	9.25	1/2-13	4	0.75	18.43	14.67	25.27	1 1/4"	1.625	4.00	1.416	0.375	2.91	
284TSCRD	9.00	10.50	0.28	0.25	11.02	1/2-13	4	0.75	19.84	16.14	25.35	1 1/2"	1.625	3.25	1.416	0.375	1.91	
284TCRD	9.00	10.50	0.28	0.25	11.02	1/2-13	4	0.75	19.84	16.14	26.72	1 1/2"	1.875	4.62	1.591	0.500	3.28	
286TSCRD	9.00	10.50	0.28	0.25	11.02	1/2-13	4	0.75	19.84	16.14	26.84	1 1/2"	1.625	3.25	1.416	0.375	1.91	
286TCRD	9.00	10.50	0.28	0.25	11.02	1/2-13	4	0.75	19.84	16.14	28.21	1 1/2"	1.875	4.62	1.591	0.500	3.28	
324TSCRD	11.00	12.50	0.28	0.25	12.99	5/8-11	4	0.94	23.18	18.43	29.72	2"	1.875	3.75	1.591	0.500	2.03	
324TCRD	11.00	12.50	0.28	0.25	12.99	5/8-11	4	0.94	23.18	18.43	31.22	2"	2.125	5.25	1.845	0.500	3.91	
326TSCRD	11.00	12.50	0.28	0.25	12.99	5/8-11	4	0.94	23.18	18.43	29.72	2"	1.875	3.75	1.591	0.500	2.03	
326TCRD	11.00	12.50	0.28	0.25	12.99	5/8-11	4	0.94	23.18	18.43	31.22	2"	2.125	5.25	1.845	0.500	3.91	

HHI Model -
Severe duty, Premium Efficiency
Three phase, TEFC, C-Face, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

C-Face, Footless NEMA Dimensions

Frame Size	C-Face								Overall			Conduit Box	Shaft & Keyway					Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)	
364TSCRD	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	31.88	3"	1.875	3.75	1.591	0.500	2.03	A
364TCRD	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	34.01	3"	2.375	5.88	2.021	0.625	4.28	
365TSCRD	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	31.88	3"	1.875	3.75	1.591	0.500	2.03	
365TCRD	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	34.01	3"	2.375	5.88	2.021	0.625	4.28	
404TCRD	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	39.42	3"	2.875	7.25	2.450	0.750	5.65	
405TSCRD	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	36.42	3"	2.125	4.25	1.845	0.500	2.80	
405TCRD	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	39.42	3"	2.875	7.25	2.450	0.750	5.65	
444TSCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	41.46	3"	2.375	4.75	2.021	0.625	3.03	
444TCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	45.21	3"	3.375	8.50	2.880	0.875	6.93	
445TSCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	41.46	3"	2.375	4.75	2.021	0.625	3.03	
445TCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	45.21	3"	3.375	8.50	2.880	0.875	6.93	
447TSCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	44.96	3"	2.375	4.75	2.021	0.625	3.03	
447TCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	48.71	3"	3.375	8.50	2.880	0.875	6.93	
449TSCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	50.08	3"	2.375	4.75	2.021	0.625	3.03	
449TCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	53.83	3"	3.375	8.50	2.880	0.875	6.93	

Fig. A
140 - 326Fr.

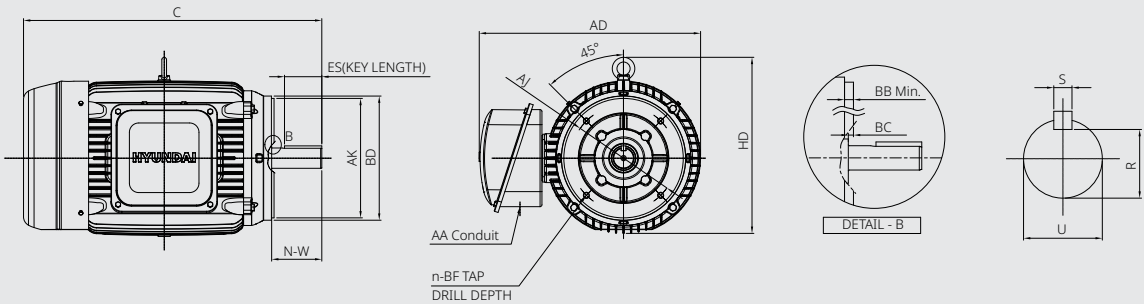
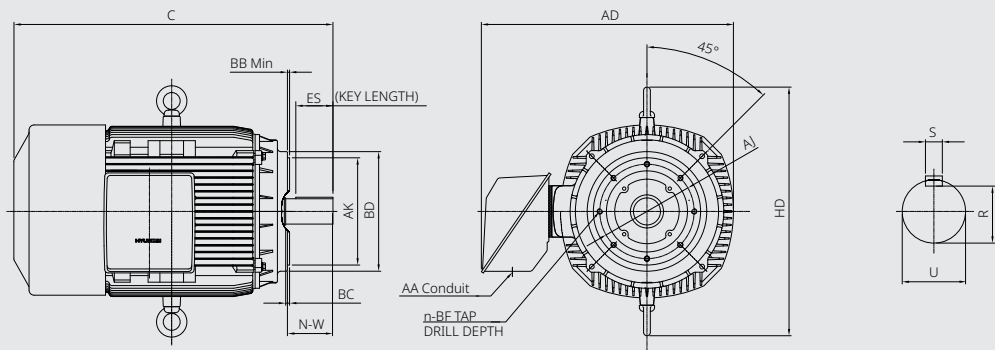


Fig. A
364 - 449Fr.



HES Model -
Severe duty, Premium Efficiency
Three phase, TEFC, D-Flange, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

D-Flange, Footless NEMA Dimensions

Frame Size	D-Flange						Overall			Conduit Box	Shaft & Keyway					Fig.
	AJ	AK	BB	BD	BF	n	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)	
143TDRD	10.00	9.00	0.25	11.00	0.53	4	12.46	11.00	12.96	3/4"	0.875	2.25	0.771	0.188	1.41	A
145TDRD	10.00	9.00	0.25	11.00	0.53	4	12.46	11.00	12.96	3/4"	0.875	2.25	0.771	0.188	1.41	
182TDRD	10.00	9.00	0.25	11.00	0.53	4	13.42	11.74	15.59	3/4"	1.125	2.75	0.986	0.25	1.78	
184TDRD	10.00	9.00	0.25	11.00	0.53	4	13.42	11.74	15.59	3/4"	1.125	2.75	0.986	0.25	1.78	
213TDRD	10.00	9.00	0.25	11.00	0.53	4	14.70	12.57	18.31	1"	1.375	3.38	1.201	0.312	2.41	
215TDRD	10.00	9.00	0.25	11.00	0.53	4	14.70	12.57	19.79	1"	1.375	3.38	1.201	0.312	2.41	
254TDRD	12.50	11.00	0.25	13.78	0.81	4	18.51	15.39	23.54	1 1/4"	1.625	4.00	1.416	0.375	2.91	
256TDRD	12.50	11.00	0.25	13.78	0.81	4	18.51	15.39	25.27	1 1/4"	1.625	4.00	1.416	0.375	2.91	
284TSDRD	12.50	11.00	0.25	13.78	0.81	4	19.84	16.14	25.35	1 1/2"	1.625	3.25	1.416	0.375	1.91	
284TDRD	12.50	11.00	0.25	13.78	0.81	4	19.84	16.14	26.72	1 1/2"	1.875	4.62	1.591	0.5	3.28	
286TSDRD	12.50	11.00	0.25	13.78	0.81	4	19.84	16.14	26.84	1 1/2"	1.625	3.25	1.416	0.375	1.91	
286TDRD	12.50	11.00	0.25	13.78	0.81	4	19.84	16.14	28.21	1 1/2"	1.875	4.62	1.591	0.5	3.28	
324TSDRD	16.00	14.00	0.25	17.72	0.81	4	24.14	19.41	29.72	2"	1.875	3.75	1.591	0.5	2.03	
324TDRD	16.00	14.00	0.25	17.72	0.81	4	24.14	19.41	31.22	2"	2.125	5.25	1.845	0.5	3.91	
326TSDRD	16.00	14.00	0.25	17.72	0.81	4	24.14	19.41	29.72	2"	1.875	3.75	1.591	0.5	2.03	
326TDRD	16.00	14.00	0.25	17.72	0.81	4	24.14	19.41	31.22	2"	2.125	5.25	1.845	0.5	3.91	

HHI Model -
Severe duty, Premium Efficiency
Three phase, TEFC, D-Flange, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

D-Flange, Footless NEMA Dimensions

Frame Size	D-Flange						Overall			Conduit Box	Shaft & Keyway					Fig.
	AJ	AK	BB	BD	BF	n	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)	
364TSDRD	16.00	14.00	0.25	17.99	0.81	8	26.01	24.89	31.88	3"	1.875	3.75	1.591	0.5	2.03	A
364TDRD	16.00	14.00	0.25	17.99	0.81	8	26.01	24.89	34.01	3"	2.375	5.88	2.021	0.625	4.28	
365TSDRD	16.00	14.00	0.25	17.99	0.81	8	26.01	24.89	31.88	3"	1.875	3.75	1.591	0.5	2.03	
365TDRD	16.00	14.00	0.25	17.99	0.81	8	26.01	24.89	34.01	3"	2.375	5.88	2.021	0.625	4.28	
404TDRD	20.00	18.00	0.25	21.65	0.81	8	30.13	29.30	39.42	3"	2.875	7.25	2.450	0.75	5.65	
405TSDRD	20.00	18.00	0.25	21.65	0.81	8	30.13	29.30	36.42	3"	2.125	4.25	1.845	0.5	2.8	
405TDRD	20.00	18.00	0.25	21.65	0.81	8	30.13	29.30	39.42	3"	2.875	7.25	2.450	0.75	5.65	
444TSDRD	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	41.46	3"	2.375	4.75	2.021	0.625	3.03	
444TDRD	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	45.21	3"	3.375	8.50	2.880	0.875	6.93	
445TSDRD	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	41.46	3"	2.375	4.75	2.021	0.625	3.03	
445TDRD	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	45.21	3"	3.375	8.50	2.880	0.875	6.93	
447TSDRD	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	44.96	3"	2.375	4.75	2.021	0.625	3.03	
447TDRD	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	48.71	3"	3.375	8.50	2.880	0.875	6.93	
449TSDRD	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	50.08	3"	2.375	4.75	2.021	0.625	3.03	
449TDRD	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	53.83	3"	3.375	8.50	2.880	0.875	6.93	

Fig. A
143 - 326Fr.

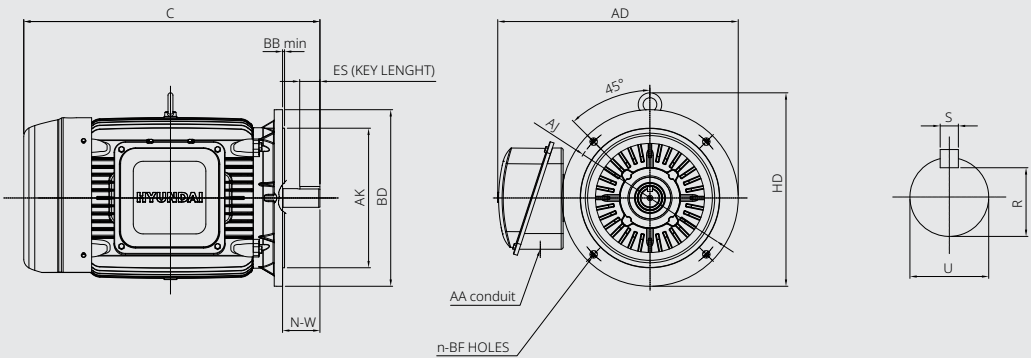
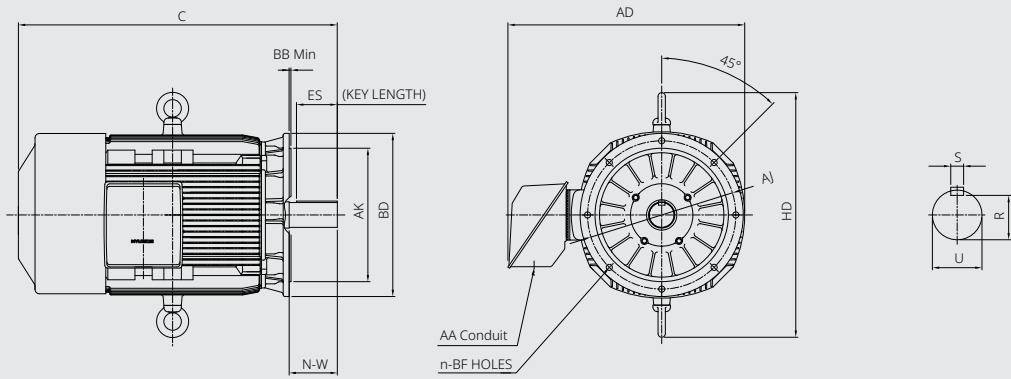


Fig. A
364 - 449Fr.



HES Model -
Severe duty, Premium Efficiency
Three phase, TEFC, Vertical, C-Face, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

Vertical, C-Face, Footless NEMA Dimensions

Frame Size	C-Face								Overall			Conduit Box	Shaft & Keyway					Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)	
143TCRDV	5.875	4.50	0.18	0.12	6.50	3/8-16	4	0.56	11.03	10.60	14.15	3/4"	0.875	2.25	0.771	0.188	1.41	A
145TCRDV	5.875	4.50	0.18	0.12	6.50	3/8-16	4	0.56	11.03	10.60	14.15	3/4"	0.875	2.25	0.771	0.188	1.41	
182TCRDV	7.25	8.50	0.28	0.12	8.85	1/2-13	4	0.75	12.79	12.46	16.77	3/4"	1.125	2.75	0.986	0.250	1.78	
184TCRDV	7.25	8.50	0.28	0.12	8.85	1/2-13	4	0.75	12.79	12.46	16.77	3/4"	1.125	2.75	0.986	0.250	1.78	
213TCRDV	7.25	8.50	0.25	0.25	8.81	1/2-13	4	0.75	14.56	14.13	19.49	1"	1.375	3.38	1.201	0.312	2.41	
215TCRDV	7.25	8.50	0.25	0.25	8.81	1/2-13	4	0.75	14.56	14.13	20.97	1"	1.375	3.38	1.201	0.312	2.41	
254TCRDV	7.25	8.50	0.28	0.25	9.25	1/2-13	4	0.75	18.43	17.01	25.35	1 1/4"	1.625	4.00	1.416	0.375	2.91	
256TCRDV	7.25	8.50	0.28	0.25	9.25	1/2-13	4	0.75	18.43	17.01	27.08	1 1/4"	1.625	4.00	1.416	0.375	2.91	
284TSCRDV	9.00	10.50	0.28	0.25	11.02	1/2-13	4	0.75	19.84	18.50	27.16	1 1/2"	1.625	3.25	1.416	0.375	1.91	
284TCRDV	9.00	10.50	0.28	0.25	11.02	1/2-13	4	0.75	19.84	18.50	28.53	1 1/2"	1.875	4.62	1.591	0.500	3.28	
286TSCRDV	9.00	10.50	0.28	0.25	11.02	1/2-13	4	0.75	19.84	18.50	28.66	1 1/2"	1.625	3.25	1.416	0.375	1.91	
286TCRDV	9.00	10.50	0.28	0.25	11.02	1/2-13	4	0.75	19.84	18.50	30.03	1 1/2"	1.875	4.62	1.591	0.500	3.28	
324TSCRDV	11.00	12.50	0.28	0.25	12.99	5/8-11	4	0.94	23.18	21.10	31.54	2"	1.875	3.75	1.591	0.500	2.03	
324TCRDV	11.00	12.50	0.28	0.25	12.99	5/8-11	4	0.94	23.18	21.10	33.04	2"	2.125	5.25	1.845	0.500	3.91	
326TSCRDV	11.00	12.50	0.28	0.25	12.99	5/8-11	4	0.94	23.18	21.10	31.54	2"	1.875	3.75	1.591	0.500	2.03	
326TCRDV	11.00	12.50	0.28	0.25	12.99	5/8-11	4	0.94	23.18	21.10	33.04	2"	2.125	5.25	1.845	0.500	3.91	

HHI Model -
Severe duty, Premium Efficiency
Three phase, TEFC, Vertical, C-Face, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

Vertical, C-Face, Footless NEMA Dimensions

Frame Size	C-Face								Overall			Conduit Box	Shaft & Keyway					Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)	
364TSCRDV	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	34.51	3"	1.875	3.75	1.591	0.500	2.03	A
364TCRDV	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	36.63	3"	2.375	5.88	2.021	0.625	4.28	
365TSCRDV	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	34.51	3"	1.875	3.75	1.591	0.500	2.03	
365TCRDV	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	36.63	3"	2.375	5.88	2.021	0.625	4.28	
404TCRDV	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	42.03	3"	2.875	7.25	2.450	0.750	5.65	
405TSCRDV	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	39.03	3"	2.125	4.25	1.845	0.500	2.80	
405TCRDV	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	42.03	3"	2.875	7.25	2.450	0.750	5.65	
444TSCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	43.75	3"	2.375	4.75	2.021	0.625	3.03	
444TCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	46.49	3"	3.375	8.50	2.880	0.875	6.93	
445TSCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	43.75	3"	2.375	4.75	2.021	0.625	3.03	
445TCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	47.75	3"	3.375	8.50	2.880	0.875	6.93	
447TSCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	46.27	3"	2.375	4.75	2.021	0.625	3.03	
447TCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	51.25	3"	3.375	8.50	2.880	0.875	6.93	
449TSCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	52.37	3"	2.375	4.75	2.021	0.625	3.03	
449TCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	56.40	3"	3.375	8.50	2.880	0.875	6.93	

Fig. A
143 - 326Fr.

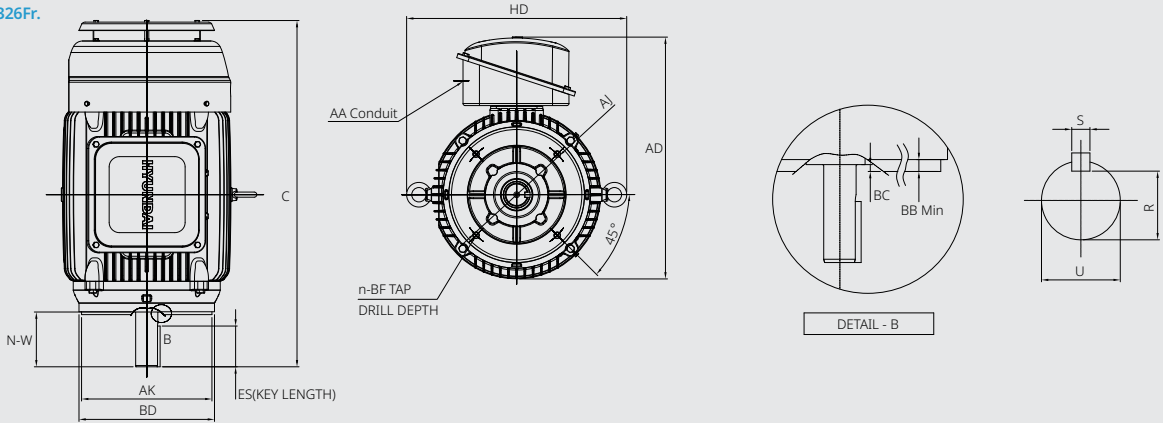
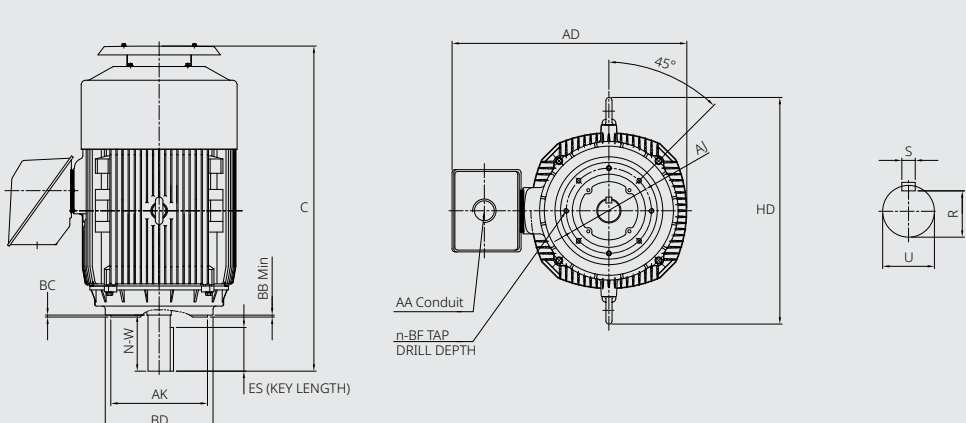


Fig. A
364 - 449Fr.



HES Model -
Severe duty, Premium Efficiency
Three phase, TEFC, Vertical, D-Flange, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

Vertical, D-Flange, Footless NEMA Dimensions

Frame Size	D-Flange						Overall			Conduit Box	Shaft & Keyway					Fig.
	AJ	AK	BB	BD	BF	n	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)	
143TDRDV	10.00	9.00	0.25	11.00	0.53	4	12.46	11.00	14.15	3/4"	0.875	2.25	0.771	0.188	1.41	A
145TDRDV	10.00	9.00	0.25	11.00	0.53	4	12.46	11.00	14.15	3/4"	0.875	2.25	0.771	0.188	1.41	
182TDRDV	10.00	9.00	0.25	11.00	0.53	4	13.42	12.46	16.77	3/4"	1.125	2.75	0.986	0.25	1.78	
184TDRDV	10.00	9.00	0.25	11.00	0.53	4	13.42	12.46	16.77	3/4"	1.125	2.75	0.986	0.25	1.78	
213TDRDV	10.00	9.00	0.25	11.00	0.53	4	15.13	14.13	19.49	1"	1.375	3.38	1.201	0.312	2.41	
215TDRDV	10.00	9.00	0.25	11.00	0.53	4	15.13	14.13	20.97	1"	1.375	3.38	1.201	0.312	2.41	
254TDRDV	12.50	11.00	0.25	13.78	0.81	4	18.51	17.01	25.35	1 1/4"	1.625	4.00	1.416	0.375	2.91	
256TDRDV	12.50	11.00	0.25	13.78	0.81	4	18.51	17.01	27.08	1 1/4"	1.625	4.00	1.416	0.375	2.91	
284TSDRDV	12.50	11.00	0.25	13.78	0.81	4	19.84	18.50	27.16	1 1/2"	1.625	3.25	1.416	0.375	1.91	
284TDRDV	12.50	11.00	0.25	13.78	0.81	4	19.84	18.50	28.53	1 1/2"	1.875	4.62	1.591	0.5	3.28	
286TSDRDV	12.50	11.00	0.25	13.78	0.81	4	19.84	18.50	28.66	1 1/2"	1.625	3.25	1.416	0.375	1.91	
286TDRDV	12.50	11.00	0.25	13.78	0.81	4	19.84	18.50	30.03	1 1/2"	1.875	4.62	1.591	0.5	3.28	
324TSDRDV	16.00	14.00	0.25	17.72	0.81	4	24.14	21.10	31.54	2"	1.875	3.75	1.591	0.5	2.03	
324TDRDV	16.00	14.00	0.25	17.72	0.81	4	24.14	21.10	33.04	2"	2.125	5.25	1.845	0.5	3.91	
326TSDRDV	16.00	14.00	0.25	17.72	0.81	4	24.14	21.10	31.54	2"	1.875	3.75	1.591	0.5	2.03	
326TDRDV	16.00	14.00	0.25	17.72	0.81	4	24.14	21.10	33.04	2"	2.125	5.25	1.845	0.5	3.91	

HHI Model -
Severe duty, Premium Efficiency
Three phase, TEFC, Vertical, D-Flange, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible

Vertical, D-Flange, Footless NEMA Dimensions

Frame Size	D-Flange						Overall			Conduit Box	Shaft & Keyway						Fig.
	AJ	AK	BB	BD	BF	n	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)		
364TSDRDV	16.00	14.00	0.25	17.99	0.81	8	26.01	24.89	34.50	3"	1.875	3.75	1.591	0.5	2.03	A	
364TDRDV	16.00	14.00	0.25	17.99	0.81	8	26.01	24.89	36.62	3"	2.375	5.88	2.021	0.625	4.28		
365TSDRDV	16.00	14.00	0.25	17.99	0.81	8	26.01	24.89	34.50	3"	1.875	3.75	1.591	0.5	2.03		
365TDRDV	16.00	14.00	0.25	17.99	0.81	8	26.01	24.89	36.62	3"	2.375	5.88	2.021	0.625	4.28		
404TDRDV	20.00	18.00	0.25	21.65	0.81	8	30.13	29.30	42.02	3"	2.875	7.25	2.450	0.75	5.65		
405TSDRDV	20.00	18.00	0.25	21.65	0.81	8	30.13	29.30	39.02	3"	2.125	4.25	1.845	0.5	2.8		
405TDRDV	20.00	18.00	0.25	21.65	0.81	8	30.13	29.30	42.02	3"	2.875	7.25	2.450	0.75	5.65		
444TSDRDV	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	43.97	3"	2.375	4.75	2.021	0.625	3.03		
444TDRDV	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	47.72	3"	3.375	8.50	2.880	0.875	6.93		
445TSDRDV	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	43.97	3"	2.375	4.75	2.021	0.625	3.03		
445TDRDV	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	47.72	3"	3.375	8.50	2.880	0.875	6.93		
447TSDRDV	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	47.48	3"	2.375	4.75	2.021	0.625	3.03		
447TDRDV	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	51.23	3"	3.375	8.50	2.880	0.875	6.93		
449TSDRDV	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	52.60	3"	2.375	4.75	2.021	0.625	3.03		
449TDRDV	20.00	18.00	0.25	22.00	0.81	8	32.48	32.99	56.35	3"	3.375	8.50	2.880	0.875	6.93		

Fig. A
143 - 326Fr.

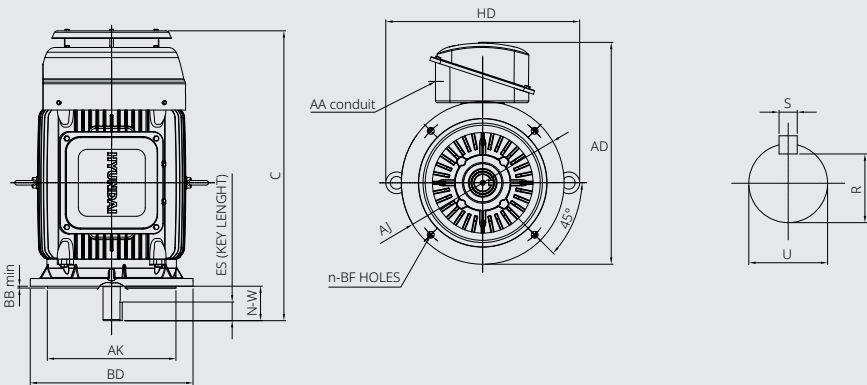
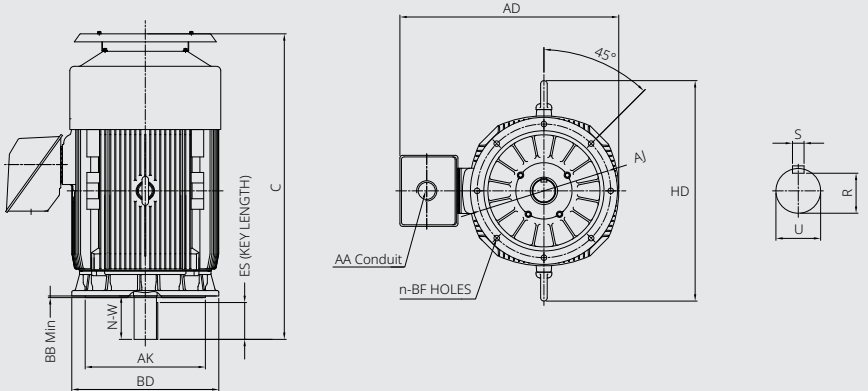
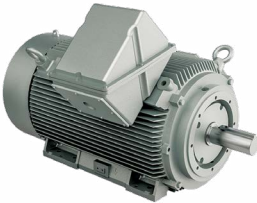


Fig. A
364 - 449Fr.



IEEE XL Model -
IEEE841, Premium Efficiency, Large motor
Three phase, TEFC, C-Face Foot mounted



Features

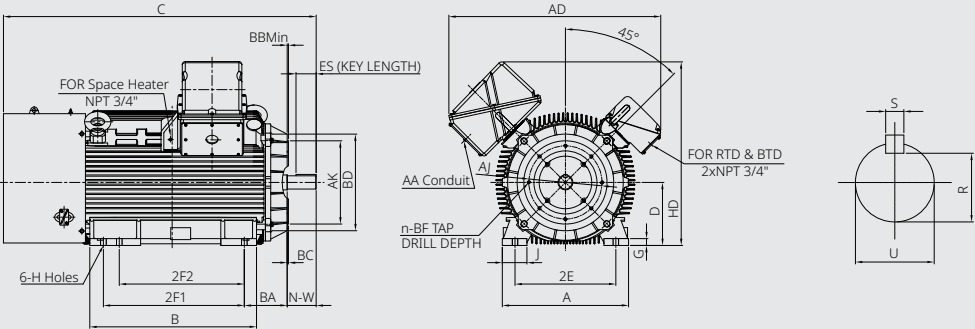
- Cast-iron terminal box
 - Fully rotatable at 90 increments
- Fabricated steel terminal box (Fr. 5812)
- Labyrinth seal (at 3600 RPM Motor), Protech seal (at 1800, 1200 RPM Motor)

C-Face, Foot Mounted NEMA Dimensions

Frame Size	Mounting & Overall										AD (Approx.)	HD (Approx.)	C (Approx.)	Conduit Box	Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H				AA	
L449TSC	11	18	3.58	22.05	1.18	25	(20)	30.7	7.5	0.81	40.8	34.37	55.89	4"	A
L449TC-4P	11	18	3.58	22.05	1.18	25	(20)	30.7	7.5	0.81	40.8	34.37	55.18	4"	
L449TC-6P	11	18	3.58	22.05	1.18	25	(20)	30.7	7.5	0.81	40.8	34.37	59.98	4"	
5008SC	12.5	20	4.88	25.04	1.26	(28)	25	33.07	8.5	0.94	42.01	36.3	62.03	4"	
5008C	12.5	20	4.88	25.04	1.26	(28)	25	33.07	8.5	0.94	42.01	36.3	67.96	4"	
5009SC	12.5	20	4.88	25.04	1.26	28	(25)	33.07	8.5	0.94	42.01	36.3	62.03	4"	
5009C	12.5	20	4.88	25.04	1.26	28	(25)	33.07	8.5	0.94	42.01	36.3	67.96	4"	
5010SC	12.5	20	4.88	25.04	1.26	(36)	32	41	8.5	0.94	42.01	36.3	67.54	4"	
5010C	12.5	20	4.88	25.04	1.26	(36)	32	41	8.5	0.94	42.01	36.3	70.84	4"	
5011SC	12.5	20	4.88	25.04	1.26	36	(32)	41	8.5	0.94	42.01	36.3	67.54	4"	
5011C	12.5	20	4.88	25.04	1.26	36	(32)	41	8.5	0.94	42.01	36.3	70.84	4"	

Frame Size	C-Face								Shaft & Keyway					Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	U	N-W	R	S	ES(Length)	
L449TSC	14	16	0.25	0.25	18	5/8-11	8	0.94	2.375	4.75	2.021	0.625	3.03	A
L449TC-4P	14	16	0.25	0.25	18	5/8-11	8	0.94	3.375	8.5	2.88	0.875	6.93	
L449TC-6P	14	16	0.25	0.25	18	5/8-11	8	0.94	3.375	8.5	2.88	0.875	6.93	
5008SC	14.5	16.5	0.25	0.25	19	5/8-11	8	0.94	2.625	5.75	2.275	0.625	4	
5008C	14.5	16.5	0.25	0.25	19	5/8-11	8	0.94	3.875	11.625	3.309	1	10	
5009SC	14.5	16.5	0.25	0.25	19	5/8-11	8	0.94	2.625	5.75	2.275	0.625	4	
5009C	14.5	16.5	0.25	0.25	19	5/8-11	8	0.94	3.875	11.625	3.309	1	10	
5010SC	14.5	16.5	0.25	0.25	19	5/8-11	8	0.94	2.625	5.75	2.275	0.625	4	
5010C	14.5	16.5	0.25	0.25	19	5/8-11	8	0.94	3.875	11.625	3.309	1	10	
5011SC	14.5	16.5	0.25	0.25	19	5/8-11	8	0.94	2.625	5.75	2.275	0.625	4	
5011C	14.5	16.5	0.25	0.25	19	5/8-11	8	0.94	3.875	11.625	3.309	1	10	

Fig. A
L449 - 5011Fr.



IEEE HL Model -
IEEE841, Premium Efficiency
Three phase, TEFC, D-Flange, Foot mounted



Features

- Cast-iron terminal box
 - Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible
- Protech seal

D-Flange, Foot Mounted NEMA Dimensions (Fr. 182 - 326)

Frame Size	Mounting & Overall										AD (Approx.)	HD (Approx.)	C (Approx.)	Conduit Box	Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H				AA	
182TD	4.5	7.5	1.64	8.65	0.6	(5.5)	4.5	6.69	2.75	0.41	13.42	11.74	15.75	3/4"	A
184TD	4.5	7.5	1.64	8.65	0.6	5.5	(4.5)	6.69	2.75	0.41	13.42	11.74	15.75	3/4"	
213TD	5.25	8.5	1.72	9.91	0.68	5.5	-	6.69	3.5	0.41	14.7	12.57	18.51	1"	
215TD	5.25	8.5	1.72	9.91	0.68	7	-	8.19	3.5	0.41	14.7	12.57	19.99	1"	
254TD	6.25	10	1.93	11.30	0.72	8.25	-	9.56	4.25	0.53	18.85	14.76	23.2	1 1/4"	B
256TD	6.25	10	1.93	11.30	0.72	10	-	11.30	4.25	0.53	18.85	14.76	24.93	1 1/4"	
284TSD	7	11	2.20	12.60	0.78	9.5	-	11.18	4.75	0.53	19.44	16.29	24.65	1 1/2"	
284TD	7	11	2.20	12.60	0.78	9.5	-	11.18	4.75	0.53	19.44	16.29	26.02	1 1/2"	
286TSD	7	11	2.20	12.60	0.78	11	-	12.68	4.75	0.53	19.44	16.29	26.22	1 1/2"	
286TD	7	11	2.20	12.60	0.78	11	-	12.68	4.75	0.53	19.44	16.29	26.52	1 1/2"	
324TSD	8	12.5	2.36	14.33	1.11	(12)	10.5	13.78	5.25	0.66	24.31	18.60	29.96	2"	
324TD	8	12.5	2.36	14.33	1.11	(12)	10.5	13.78	5.25	0.66	24.31	18.60	31.46	2"	
326TSD	8	12.5	2.36	14.33	1.11	12	(10.5)	13.78	5.25	0.66	24.31	18.60	29.96	2"	
326TD	8	12.5	2.36	14.33	1.11	12	(10.5)	13.78	5.25	0.66	24.31	18.60	31.46	2"	

Frame Size	D-Flange						Shaft & Keyway					Fig.
	AJ	AK	BB	BD	BF	n	U	N-W	R	S	ES(Length)	
182TD	10.00	9.00	0.25	11	0.53	4	1.125	2.75	0.986	0.25	1.78	A
184TD	10.00	9.00	0.25	11	0.53	4	1.125	2.75	0.986	0.25	1.78	
213TD	10.00	9.00	0.25	11	0.53	4	1.375	3.38	1.201	0.312	2.41	
215TD	10.00	9.00	0.25	11	0.53	4	1.375	3.38	1.201	0.312	2.41	
254TD	12.50	11.00	0.25	14	0.81	4	1.625	4.00	1.416	0.375	2.91	B
256TD	12.50	11.00	0.25	14	0.81	4	1.625	4.00	1.416	0.375	2.91	
284TSD	12.50	11.00	0.25	14	0.81	4	1.625	3.25	1.416	0.375	1.91	
284TD	12.50	11.00	0.25	14	0.81	4	1.875	4.62	1.591	0.5	3.28	
286TSD	12.50	11.00	0.25	14	0.81	4	1.625	3.25	1.416	0.375	1.91	
286TD	12.50	11.00	0.25	14	0.81	4	1.875	4.62	1.591	0.5	3.28	
324TSD	16.00	14.00	0.25	18	0.81	4	1.875	3.75	1.591	0.5	2.03	
324TD	16.00	14.00	0.25	18	0.81	4	2.125	5.25	1.845	0.5	3.91	
326TSD	16.00	14.00	0.25	18	0.81	4	1.875	3.75	1.591	0.5	2.03	
326TD	16.00	14.00	0.25	18	0.81	4	2.125	5.25	1.845	0.5	3.91	

Fig. A
182 - 215Fr.

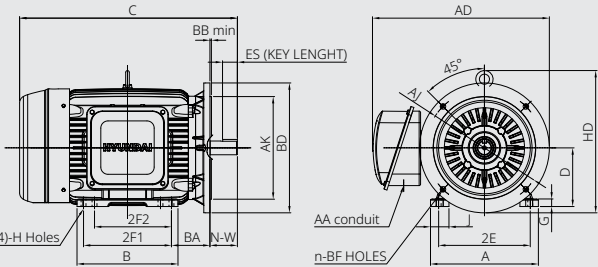
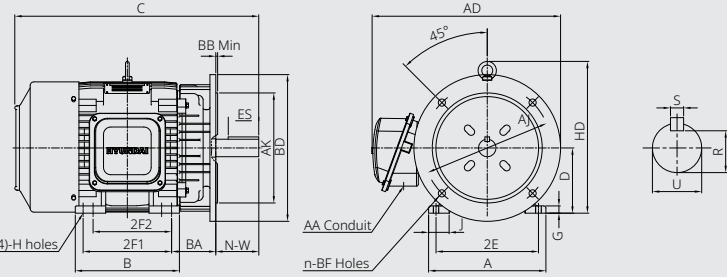


Fig. B
254 - 326Fr.



IEEE HL Model -
IEEE841, Premium Efficiency
Three phase, TEFC, D-Flange, Foot mounted



Features

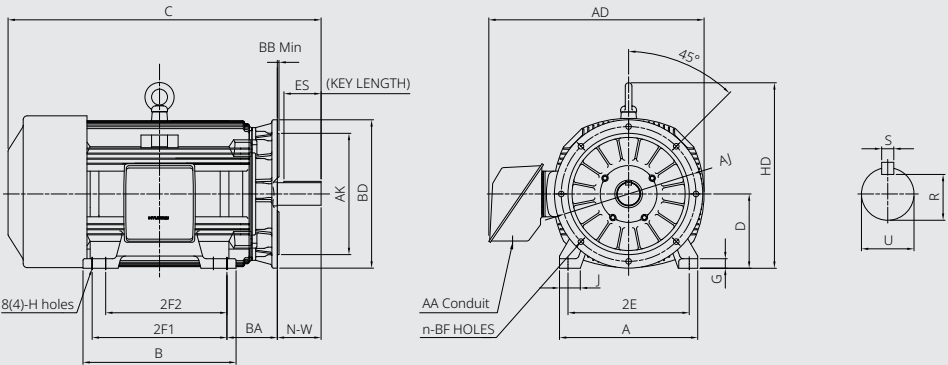
- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible
- Protech seal

D-Flange, Foot Mounted NEMA Dimensions (Fr. 364 - 449)

Frame Size	Mounting & Overall										AD (Approx.)	HD (Approx.)	C (Approx.)	Conduit Box AA	Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	H					
364TSD	9	14	2.72	16.14	0.98	(12.25)	11.25	14.92	5.88	0.66	26.13	21.3	33.06	3"	A
364TD	9	14	2.72	16.14	0.98	(12.25)	11.25	14.92	5.88	0.66	26.13	21.3	35.20	3"	
365TSD	9	14	2.72	16.14	0.98	(12.25)	11.25	14.92	5.88	0.66	26.13	21.3	33.06	3"	
365TD	9	14	2.72	16.14	0.98	(12.25)	11.25	14.92	5.88	0.66	26.13	21.3	35.20	3"	
404TD	10	16	3.03	18.43	1.18	(13.75)	12.25	16.46	6.62	0.81	31.11	24.34	41.01	3"	
405TSD	10	16	3.03	18.43	1.18	13.75	(12.25)	16.46	6.62	0.81	31.11	24.34	38.00	3"	
405TD	10	16	3.03	18.43	1.18	13.75	(12.25)	16.46	6.62	0.81	31.11	24.34	41.01	3"	
444TSD	11	18	3.07	20.51	1.42	(16.5)	14.5	19.21	7.5	0.81	32.48	27.52	47.15	3"	
444TD	11	18	3.07	20.51	1.42	(16.5)	14.5	19.21	7.5	0.81	32.48	27.52	46.45	3"	
445TSD	11	18	3.07	20.51	1.42	16.5	(14.5)	19.21	7.5	0.81	32.48	27.52	47.15	3"	
445TD	11	18	3.07	20.51	1.42	16.5	(14.5)	19.21	7.5	0.81	32.48	27.52	46.78	3"	
447TSD	11	18	3.07	20.51	1.42	20	(17.99)	22.72	7.5	0.81	32.48	27.52	50.65	3"	
447TD	11	18	3.07	20.51	1.42	20	(17.99)	22.72	7.5	0.81	32.48	27.52	50.29	3"	
449TSD	11	18	3.07	20.51	1.42	25	(20)	22.72	7.5	0.81	32.48	27.52	55.77	3"	
449TD	11	18	3.07	20.51	1.42	25	(20)	22.72	7.5	0.81	32.48	27.52	53.83	3"	

Frame Size	D-Flange						Shaft & Keyway					Fig.
	AJ	AK	BB	BD	BF	n	U	N-W	R	S	ES(Length)	
364TSD	16	14	0.25	17.99	0.81	8	1.875	3.75	1.591	0.5	2.03	A
364TD	16	14	0.25	17.99	0.81	8	2.375	5.88	2.021	0.625	4.28	
365TSD	16	14	0.25	17.99	0.81	8	1.875	3.75	1.591	0.5	2.03	
365TD	16	14	0.25	17.99	0.81	8	2.375	5.88	2.021	0.625	4.28	
404TD	20	18	0.25	21.65	0.81	8	2.875	7.25	2.45	0.75	5.65	
405TSD	20	18	0.25	21.65	0.81	8	2.125	4.25	1.845	0.5	2.8	
405TD	20	18	0.25	21.65	0.81	8	2.875	7.25	2.45	0.75	5.65	
444TSD	20	18	0.25	22	0.81	8	2.375	4.75	2.021	0.625	3.03	
444TD	20	18	0.25	22	0.81	8	3.375	8.5	2.88	0.875	6.93	
445TSD	20	18	0.25	22	0.81	8	2.375	4.75	2.021	0.625	3.03	
445TD	20	18	0.25	22	0.81	8	3.375	8.5	2.88	0.875	6.93	
447TSD	20	18	0.25	22	0.81	8	2.375	4.75	2.021	0.625	3.03	
447TD	20	18	0.25	22	0.81	8	3.375	8.5	2.88	0.875	6.93	
449TSD	20	18	0.25	22	0.81	8	2.375	4.75	2.021	0.625	3.03	
449TD	20	18	0.25	22	0.81	8	3.375	8.5	2.88	0.875	6.93	

Fig. A
364 - 449Fr.



IEEE HL Model -
IEEE841, Premium Efficiency
Three phase, TEFC, C-Face, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible
- Protech seal

C-Face, Footless NEMA Dimensions (Fr. 143 - 326)

Frame Size	C-Face								Overall			Conduit Box AA	Shaft & Keyway					Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	AD (Approx.)	HD (Approx.)	C (Approx.)		U	N-W	R	S	ES(Length)	
143TCRD	5.875	4.50	0.16	0.12	6.57	3/8-16	4	0.56	10.69	8.96	13.05	3/4"	0.875	2.25	0.771	0.188	1.41	A
145TCRD	5.875	4.50	0.16	0.12	6.57	3/8-16	4	0.56	10.69	8.96	13.05	3/4"	0.875	2.25	0.771	0.188	1.41	
182TCRD	7.25	8.50	0.28	0.12	8.85	1/2-13	4	0.75	12.79	11.15	15.75	3/4"	1.125	2.75	0.986	0.250	1.78	B
184TCRD	7.25	8.50	0.28	0.12	8.85	1/2-13	4	0.75	12.79	11.15	15.75	3/4"	1.125	2.75	0.986	0.250	1.78	
213TCRD	7.25	8.50	0.25	0.25	8.81	1/2-13	4	0.75	14.56	12.09	18.51	1"	1.375	3.38	1.201	0.312	2.41	
215TCRD	7.25	8.50	0.25	0.25	8.81	1/2-13	4	0.75	14.56	12.09	19.93	1"	1.375	3.38	1.201	0.312	2.41	
254TCRD	7.25	8.50	0.25	0.25	9.68	1/2-13	4	0.75	18.23	14.77	23.20	1 1/4"	1.625	4.00	1.416	0.375	2.91	C
256TCRD	7.25	8.50	0.25	0.25	9.68	1/2-13	4	0.75	18.23	14.77	24.93	1 1/4"	1.625	4.00	1.416	0.375	2.91	
284TSCRD	9.00	10.50	0.25	0.25	10.90	1/2-13	4	0.75	19.54	16.20	24.91	1 1/2"	1.875	3.25	1.416	0.375	1.91	
284TCRD	9.00	10.50	0.25	0.25	10.90	1/2-13	4	0.75	19.54	16.20	26.28	1 1/2"	1.875	4.62	1.591	0.500	3.28	
286TSCRD	9.00	10.50	0.25	0.25	10.90	1/2-13	4	0.75	19.54	16.20	26.41	1 1/2"	1.625	3.25	1.416	0.375	1.91	
286TCRD	9.00	10.50	0.25	0.25	10.90	1/2-13	4	0.75	19.54	16.20	27.78	1 1/2"	1.875	4.62	1.591	0.500	3.28	
324TSCRD	11.00	12.50	0.25	0.25	13.27	5/8-11	4	0.94	23.23	18.25	31.40	2"	1.875	3.75	1.591	0.500	2.03	
324TCRD	11.00	12.50	0.25	0.25	13.27	5/8-11	4	0.94	23.23	18.25	31.40	2"	2.125	5.25	1.845	0.500	3.91	
326TSCRD	11.00	12.50	0.25	0.25	13.27	5/8-11	4	0.94	23.23	18.25	31.40	2"	1.875	3.75	1.591	0.500	2.03	
326TCRD	11.00	12.50	0.25	0.25	13.27	5/8-11	4	0.94	23.23	18.25	31.40	2"	2.125	5.25	1.845	0.500	3.91	

Fig. A
143 - 145Fr.

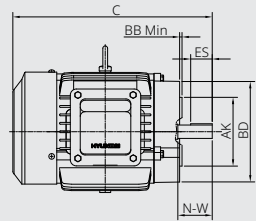


Fig. B
182 - 215Fr.

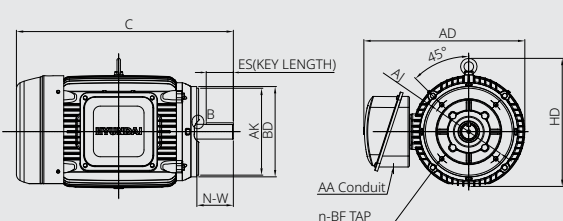
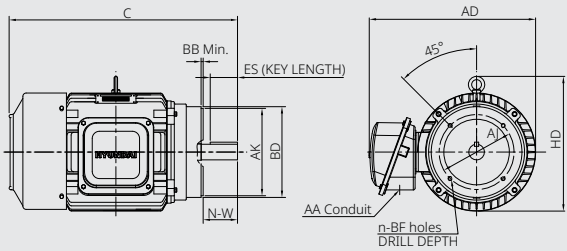


Fig. C
254 - 326Fr.



IEEE HL Model -
IEEE841, Premium Efficiency
Three phase, TEFC, C-Face, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible
- Protech seal

C-Face, Footless NEMA Dimensions (Fr. 364 - 449)

Frame Size	C-Face								Overall			Conduit Box	Shaft & Keyway						Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)		
364TSCRD	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	33.06	3"	1.875	3.75	1.591	0.500	2.03	A	
364TCRD	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	35.20	3"	2.375	5.88	2.021	0.625	4.28		
365TSCRD	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	33.06	3"	1.875	3.75	1.591	0.500	2.03		
365TCRD	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	35.20	3"	2.375	5.88	2.021	0.625	4.28		
404TCRD	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	41.01	3"	2.875	7.25	2.450	0.750	5.65		
405TSCRD	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	38.00	3"	2.125	4.25	1.845	0.500	2.80		
405TCRD	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	41.01	3"	2.875	7.25	2.450	0.750	5.65		
444TSCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	47.15	3"	2.375	4.75	2.021	0.625	3.03		
444TCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	46.45	3"	3.375	8.50	2.880	0.875	6.93		
445TSCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	47.15	3"	2.375	4.75	2.021	0.625	3.03		
445TCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	46.78	3"	3.375	8.50	2.880	0.875	6.93		
447TSCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	35.00	32.99	50.65	3"	2.375	4.75	2.021	0.625	3.03		
447TCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	35.00	32.99	50.29	3"	3.375	8.50	2.880	0.875	6.93		
449TSCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	35.00	32.99	55.77	3"	2.375	4.75	2.021	0.625	3.03		
449TCRD	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	35.00	32.99	53.83	3"	3.375	8.50	2.880	0.875	6.93		

IEEE HL Model -
IEEE841, Premium Efficiency
Three phase, TEFC, D-Flange, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible
- Protech seal

D-Flange, Footless NEMA Dimensions (Fr. 182 - 326)

Frame Size	D-Flange						Overall			Conduit Box	Shaft & Keyway						Fig.
	AJ	AK	BB	BD	BF	n	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)		
182TDRD	10.00	9.00	0.25	11.00	0.53	4	13.42	11.74	15.75	3/4"	1.125	2.75	0.986	0.25	1.78	A	
184TDRD	10.00	9.00	0.25	11.00	0.53	4	13.42	11.74	15.75	3/4"	1.125	2.75	0.986	0.25	1.78		
213TDRD	10.00	9.00	0.25	11.00	0.53	4	14.70	12.57	18.51	1"	1.375	3.38	1.201	0.312	2.41		
215TDRD	10.00	9.00	0.25	11.00	0.53	4	14.70	12.57	19.99	1"	1.375	3.38	1.201	0.312	2.41		
254TDRD	12.50	11.00	0.25	14.00	0.81	4	18.85	15.39	23.20	1 1/4"	1.625	4.00	1.416	0.375	2.91		
256TDRD	12.50	11.00	0.25	14.00	0.81	4	18.85	15.39	24.93	1 1/4"	1.625	4.00	1.416	0.375	2.91	B	
284TSDRD	12.50	11.00	0.25	14.00	0.81	4	19.44	16.11	24.91	1 1/2"	1.625	3.25	1.416	0.375	1.91		
284TDRD	12.50	11.00	0.25	14.00	0.81	4	19.44	16.11	26.28	1 1/2"	1.875	4.62	1.591	0.5	3.28		
286TSDRD	12.50	11.00	0.25	14.00	0.81	4	19.44	16.11	26.34	1 1/2"	1.625	3.25	1.416	0.375	1.91		
286TDRD	12.50	11.00	0.25	14.00	0.81	4	19.44	16.11	27.78	1 1/2"	1.875	4.62	1.591	0.5	3.28		
324TSDRD	16.00	14.00	0.25	18.00	0.81	4	25.31	19.33	29.90	2"	1.875	3.75	1.591	0.5	2.03		
324TDRD	16.00	14.00	0.25	18.00	0.81	4	25.31	19.33	31.40	2"	2.125	5.25	1.845	0.5	3.91		
326TSDRD	16.00	14.00	0.25	18.00	0.81	4	25.31	19.33	29.90	2"	1.875	3.75	1.591	0.5	2.03		
326TDRD	16.00	14.00	0.25	18.00	0.81	4	25.31	19.33	31.40	2"	2.125	5.25	1.845	0.5	3.91		

Fig. A
364 - 449Fr.

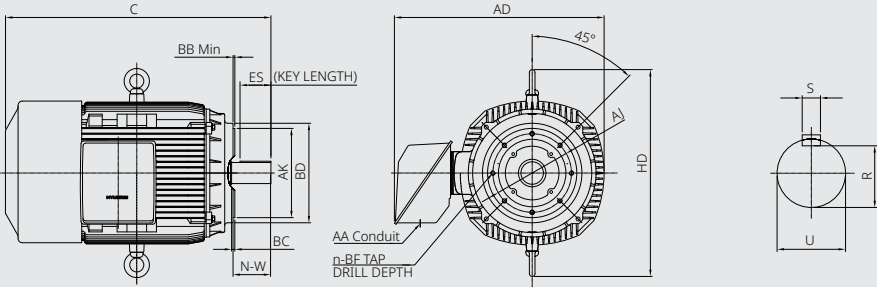


Fig. A
182 - 215Fr.

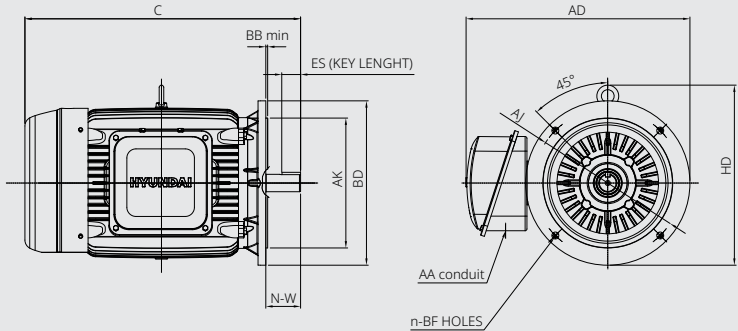
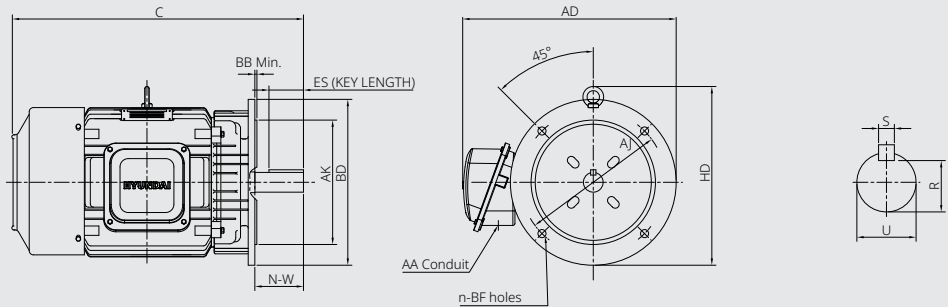


Fig. B
254 - 326Fr.



IEEE HL Model -
IEEE841, Premium Efficiency
Three phase, TEFC, D-Flange, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible
- Protech seal

D-Flange, Footless NEMA Dimensions (Fr. 364 - 449)

Frame Size	D-Flange						Overall			Conduit Box	Shaft & Keyway					Fig.
	AJ	AK	BB	BD	BF	n	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)	
364TSDRD	16.00	14.00	0.25	17.99	0.81	8	26.13	24.89	33.06	3"	1.875	3.75	1.591	0.5	2.03	A
364TDRD	16.00	14.00	0.25	17.99	0.81	8	26.13	24.89	35.20	3"	2.375	5.88	2.021	0.625	4.28	
365TSDRD	16.00	14.00	0.25	17.99	0.81	8	26.13	24.89	33.06	3"	1.875	3.75	1.591	0.5	2.03	
365TDRD	16.00	14.00	0.25	17.99	0.81	8	26.13	24.89	35.20	3"	2.375	5.88	2.021	0.625	4.28	
404TDRD	20.00	18.00	0.25	21.65	0.81	8	31.11	29.30	41.01	3"	2.875	7.25	2.450	0.75	5.65	
405TSDRD	20.00	18.00	0.25	21.65	0.81	8	31.11	29.30	38.00	3"	2.125	4.25	1.845	0.5	2.8	
405TDRD	20.00	18.00	0.25	21.65	0.81	8	31.11	29.30	41.01	3"	2.875	7.25	2.450	0.75	5.65	
444TSDRD	20.00	18.00	0.25	22.00	0.81	8	32.26	32.99	47.15	3"	2.375	4.75	2.021	0.625	3.03	
444TDRD	20.00	18.00	0.25	22.00	0.81	8	32.26	32.99	46.45	3"	3.375	8.50	2.880	0.875	6.93	
445TSDRD	20.00	18.00	0.25	22.00	0.81	8	32.26	32.99	47.15	3"	2.375	4.75	2.021	0.625	3.03	
445TDRD	20.00	18.00	0.25	22.00	0.81	8	32.26	32.99	46.78	3"	3.375	8.50	2.880	0.875	6.93	
447TSDRD	20.00	18.00	0.25	22.00	0.81	8	34.78	32.99	50.65	3"	2.375	4.75	2.021	0.625	3.03	
447TDRD	20.00	18.00	0.25	22.00	0.81	8	34.78	32.99	50.29	3"	3.375	8.50	2.880	0.875	6.93	
449TSDRD	20.00	18.00	0.25	22.00	0.81	8	34.78	32.99	55.77	3"	2.375	4.75	2.021	0.625	3.03	
449TDRD	20.00	18.00	0.25	22.00	0.81	8	34.78	32.99	53.83	3"	3.375	8.50	2.880	0.875	6.93	

IEEE HL Model -
IEEE841, Premium Efficiency
Three phase, TEFC, Vertical, C-Face, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible
- Protech seal

Vertical, C-Face, Footless NEMA Dimensions (Fr. 143 - 326)

Frame Size	C-Face								Overall			Conduit Box	Shaft & Keyway					Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)	
143TCRDV	5.875	4.50	0.16	0.12	6.57	3/8-16	4	0.56	10.69	8.96	13.05	3/4"	0.875	2.25	0.771	0.188	1.41	A
145TCRDV	5.875	4.50	0.16	0.12	6.57	3/8-16	4	0.56	10.69	8.96	13.05	3/4"	0.875	2.25	0.771	0.188	1.41	
182TCRDV	7.25	8.50	0.28	0.12	8.85	1/2-13	4	0.75	12.79	12.46	16.93	3/4"	1.125	2.75	0.986	0.250	1.78	
184TCRDV	7.25	8.50	0.28	0.12	8.85	1/2-13	4	0.75	12.79	12.46	16.93	3/4"	1.125	2.75	0.986	0.250	1.78	
213TCRDV	7.25	8.50	0.25	0.25	8.81	1/2-13	4	0.75	14.56	14.13	19.69	1"	1.375	3.38	1.201	0.312	2.41	B
215TCRDV	7.25	8.50	0.25	0.25	8.81	1/2-13	4	0.75	14.56	14.13	21.17	1"	1.375	3.38	1.201	0.312	2.41	
254TCRDV	7.25	8.50	0.25	0.25	9.68	1/2-13	4	0.75	18.23	14.77	25.01	1 1/4"	1.625	4.00	1.416	0.375	2.91	
256TCRDV	7.25	8.50	0.25	0.25	9.68	1/2-13	4	0.75	18.23	14.77	26.73	1 1/4"	1.625	4.00	1.416	0.375	2.91	
284TCRDV	9.00	10.50	0.25	0.25	10.90	1/2-13	4	0.75	18.95	16.20	26.72	1 1/2"	1.625	3.25	1.416	0.375	1.91	C
284TCRDV	9.00	10.50	0.25	0.25	10.90	1/2-13	4	0.75	19.54	16.20	28.09	1 1/2"	1.875	4.62	1.591	0.500	3.28	
286TSCRDV	9.00	10.50	0.25	0.25	10.90	1/2-13	4	0.75	19.54	16.20	25.22	1 1/2"	1.625	3.25	1.416	0.375	1.91	
286TCRDV	9.00	10.50	0.25	0.25	10.90	1/2-13	4	0.75	19.54	16.20	29.59	1 1/2"	1.875	4.62	1.591	0.500	3.28	
324TSCRDV	11.00	12.50	0.25	0.25	13.27	5/8-11	4	0.94	24.23	18.25	31.71	2"	1.875	3.75	1.591	0.500	2.03	
324TCRDV	11.00	12.50	0.25	0.25	13.27	5/8-11	4	0.94	24.23	18.25	33.21	2"	2.125	5.25	1.845	0.500	3.91	
326TSCRDV	11.00	12.50	0.25	0.25	13.27	5/8-11	4	0.94	24.23	18.25	31.71	2"	1.875	3.75	1.591	0.500	2.03	
326TCRDV	11.00	12.50	0.25	0.25	13.27	5/8-11	4	0.94	24.23	18.25	33.21	2"	2.125	5.25	1.845	0.500	3.91	

Fig. A
364 - 449Fr.

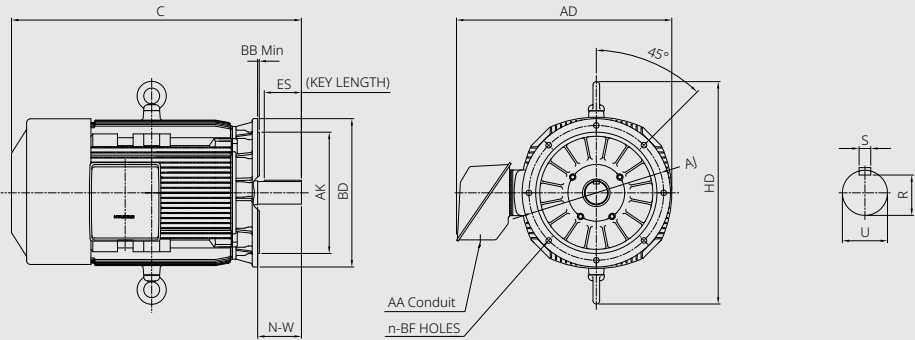


Fig. A
143 - 145Fr.

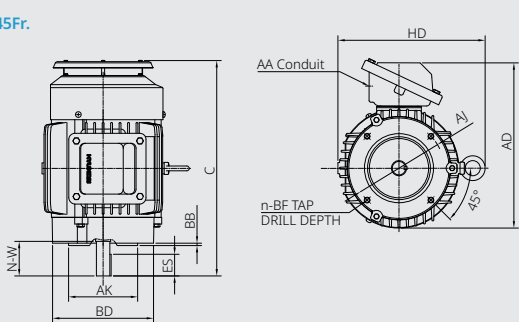


Fig. B
182 - 215Fr.

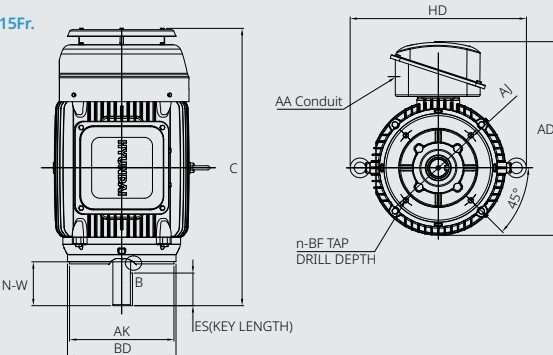
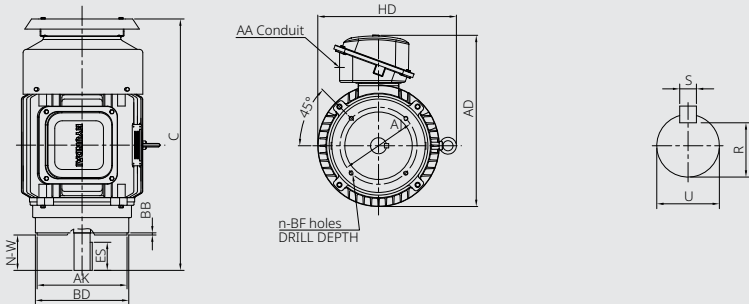


Fig. C
254 - 326Fr.



IEEE HL Model -
IEEE841, Premium Efficiency
Three phase, TEFC, Vertical, C-Face, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible
- Protech seal

Vertical, C-Face, Footless NEMA Dimensions (Fr. 364 - 449)

Frame Size	C-Face								Overall			Conduit Box	Shaft & Keyway						Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)		
364TSCRDV	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	34.65	3"	1.875	3.75	1.591	0.500	2.03	A	
364TCRDV	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	32.15	3"	2.375	5.88	2.021	0.625	4.28		
365TSCRDV	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	35.65	3"	1.875	3.75	1.591	0.500	2.03		
365TCRDV	11.00	12.50	0.25	0.25	13.54	5/8-11	8	0.94	26.01	24.89	32.15	3"	2.375	5.88	2.021	0.625	4.28		
404TCRDV	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	42.45	3"	2.875	7.25	2.450	0.750	5.65		
405TSCRDV	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	39.45	3"	2.125	4.25	1.845	0.500	2.80		
405TCRDV	11.00	12.50	0.25	0.25	13.94	5/8-11	8	0.94	30.13	29.30	42.45	3"	2.875	7.25	2.450	0.750	5.65		
444TSCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	48.78	3"	2.375	4.75	2.021	0.625	3.03		
444TCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	44.06	3"	3.375	8.50	2.880	0.875	6.93		
445TSCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	48.78	3"	2.375	4.75	2.021	0.625	3.03		
445TCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	32.48	32.99	47.81	3"	3.375	8.50	2.880	0.875	6.93		
447TSCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	35.00	32.99	52.29	3"	2.375	4.75	2.021	0.625	3.03		
447TCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	35.00	32.99	52.57	3"	3.375	8.50	2.880	0.875	6.93		
449TSCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	35.00	32.99	57.29	3"	2.375	4.75	2.021	0.625	3.03		
449TCRDV	14.00	16.00	0.25	0.25	17.48	5/8-11	8	0.94	35.00	32.99	56.69	3"	3.375	8.50	2.880	0.875	6.93		

IEEE HL Model -
IEEE841, Premium Efficiency
Three phase, TEFC, Vertical, D-Flange, Footless



Features

- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible
- Protech seal

Vertical, D-Flange, Footless NEMA Dimensions (Fr. 182 - 326)

Frame Size	D-Flange						Overall			Conduit Box	Shaft & Keyway					Fig.
	AJ	AK	BB	BD	BF	n	AD (Approx.)	HD (Approx.)	C (Approx.)	AA	U	N-W	R	S	ES(Length)	
182TDRDV	10.00	9.00	0.25	11.00	0.53	4	13.42	12.46	16.93	3/4"	1.125	2.75	0.986	0.25	1.78	A
184TDRDV	10.00	9.00	0.25	11.00	0.53	4	13.42	12.46	16.93	3/4"	1.125	2.75	0.986	0.25	1.78	
213TDRDV	10.00	9.00	0.25	11.00	0.53	4	15.13	14.13	19.69	1"	1.375	3.38	1.201	0.312	2.41	
215TDRDV	10.00	9.00	0.25	11.00	0.53	4	15.13	14.13	21.17	1"	1.375	3.38	1.201	0.312	2.41	
254TDRDV	12.50	11.00	0.25	14.00	0.81	4	18.85	15.39	25.01	1 1/4"	1.625	4.00	1.416	0.375	2.91	
256TDRDV	12.50	11.00	0.25	14.00	0.81	4	18.85	15.39	26.74	1 1/4"	1.625	4.00	1.416	0.375	2.91	B
284TSDRDV	12.50	11.00	0.25	14.00	0.81	4	19.44	16.11	26.72	1 1/2"	1.625	3.25	1.416	0.375	1.91	
284TDRDV	12.50	11.00	0.25	14.00	0.81	4	19.44	16.11	28.09	1 1/2"	1.875	4.62	1.591	0.5	3.28	
286TSDRDV	12.50	11.00	0.25	14.00	0.81	4	19.44	16.11	28.22	1 1/2"	1.625	3.25	1.416	0.375	1.91	
286TDRDV	12.50	11.00	0.25	14.00	0.81	4	19.44	16.11	29.59	1 1/2"	1.875	4.62	1.591	0.5	3.28	
324TSDRDV	16.00	14.00	0.25	18.00	0.81	4	25.31	19.33	31.71	2"	1.875	3.75	1.591	0.5	2.03	
324TDRDV	16.00	14.00	0.25	18.00	0.81	4	25.31	19.33	33.21	2"	2.125	5.25	1.845	0.5	3.91	
326TSDRDV	16.00	14.00	0.25	18.00	0.81	4	25.31	19.33	31.71	2"	1.875	3.75	1.591	0.5	2.03	
326TDRDV	16.00	14.00	0.25	18.00	0.81	4	25.31	19.33	33.21	2"	2.125	5.25	1.845	0.5	3.91	

Fig. A
364 - 449Fr.

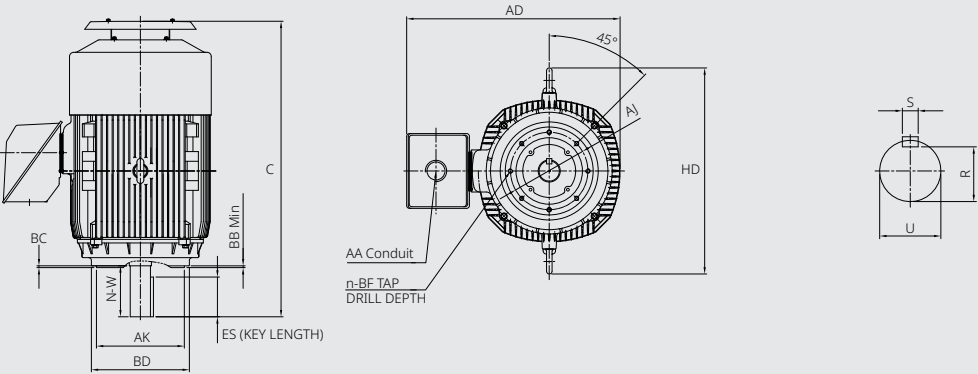


Fig. A
182 - 215Fr.

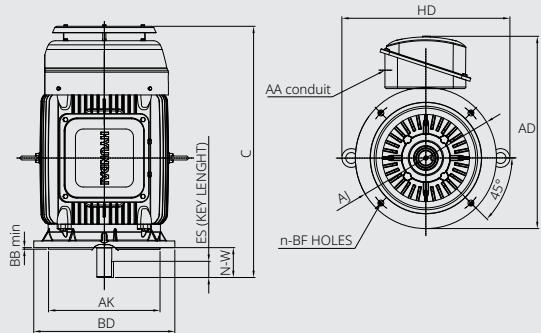
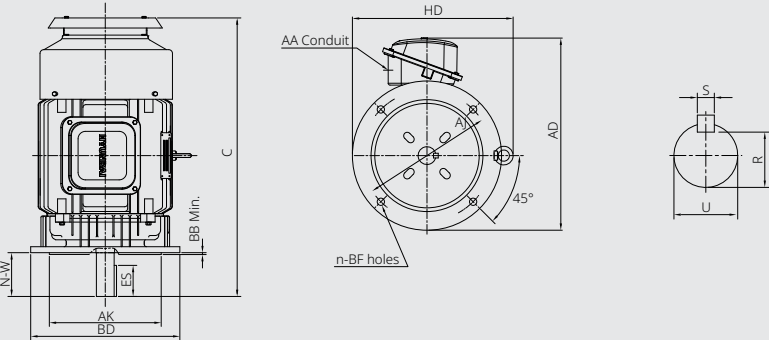
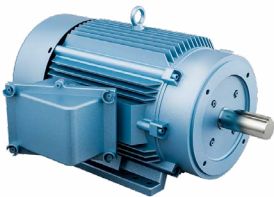


Fig. B
254 - 326Fr.



IXHHI Model -
Explosion proof, Premium Efficiency
Three phase, TEFC, C-Face, Foot mounted



Features

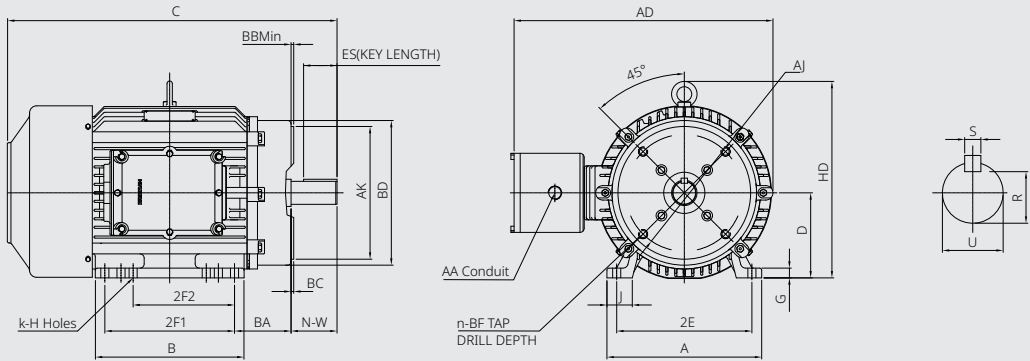
- Cast-iron terminal box
- Fully rotatable at 90 increments
- Main Terminal Box F1 ↔ F2 Field convertible
- Class I Division 1 (Fr. 143 - 326) / Class II Division 1 (Fr. 143 - 326)

C-Face, Foot Mounted NEMA Dimensions

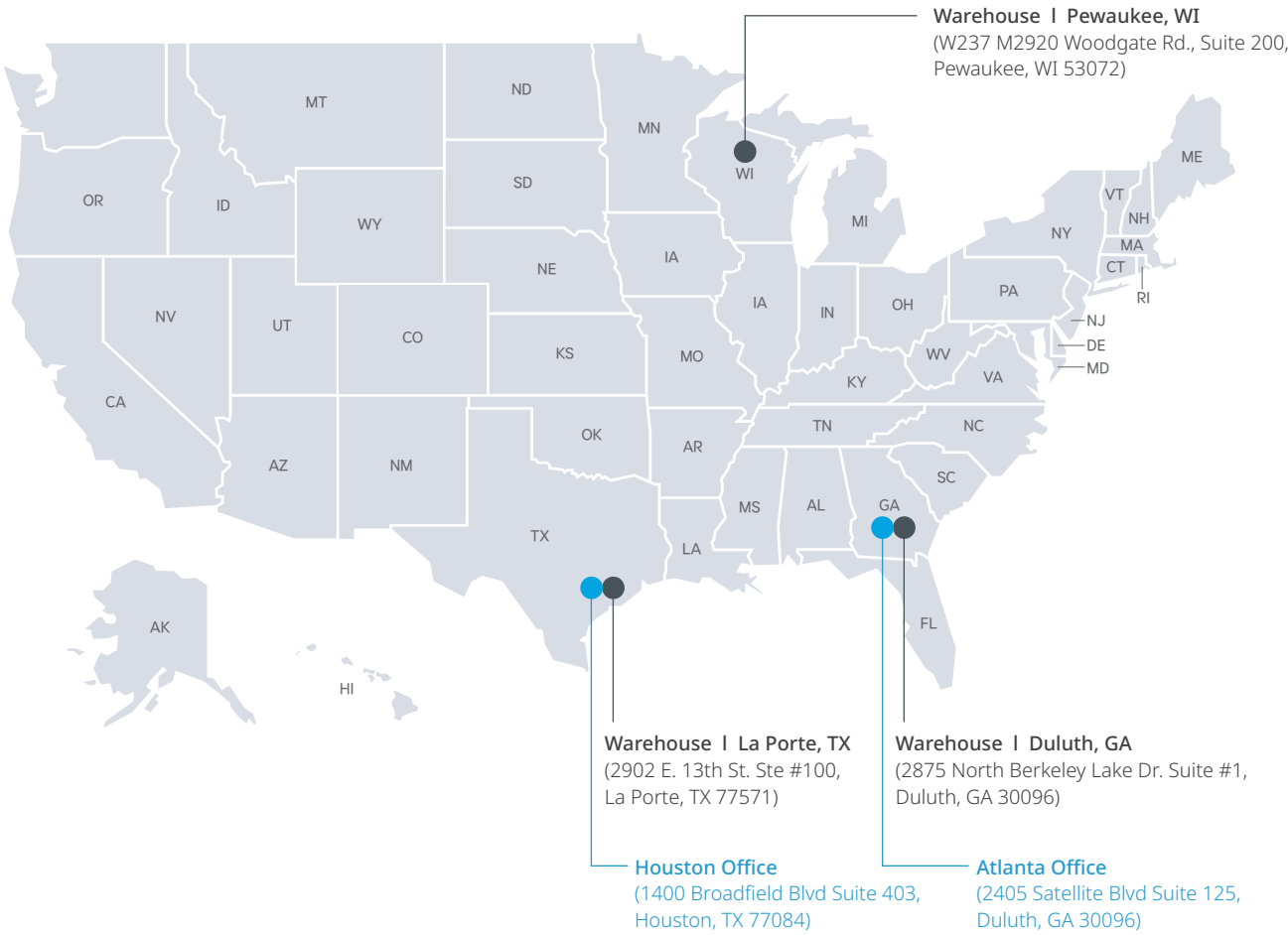
Frame Size	Mounting & Overall											AD (Approx.)	HD (Approx.)	C (Approx.)	Shaft & Keyway					Conduit Box AA	Fig.
	D	2E	J	A	G	2F1	2F2	B	BA	k	H				U	N-W	R	S	ES		
143TC	3.5	5.5	1.36	6.78	0.45	-	4	6.15	2.25	8	0.34	12.36	9.09	13.05	0.875	2.25	0.771	0.188	1.41	3/4"	A
145TC	3.5	5.5	1.36	6.78	0.45	5	-	6.15	2.25	8	0.34	12.36	9.09	13.05	0.875	2.25	0.771	0.188	1.41	3/4"	
182TC	4.5	7.5	1.74	8.66	0.62	4.5	-	5.52	2.75	4	0.41	14.35	10.95	15.52	1.125	2.75	0.986	0.250	1.78	3/4"	
184TC	4.5	7.5	1.74	8.66	0.62	5.5	-	6.54	2.75	8	0.41	14.35	10.95	16.55	1.125	2.75	0.986	0.250	1.78	3/4"	
213TC	5.25	8.5	1.52	9.85	0.60	5.5	-	6.77	3.50	4	0.41	15.93	12.65	18.86	1.375	3.38	1.201	0.312	2.41	1"	
215TC	5.25	8.5	1.52	9.84	0.60	7	-	8.66	3.50	8	0.41	15.93	12.65	20.36	1.375	3.38	1.201	0.312	2.41	1"	
254TC	6.25	10	1.93	11.30	0.72	8.25	-	9.56	4.25	4	0.53	18.39	14.76	23.13	1.625	4.00	1.416	0.375	2.91	1 1/4"	
256TC	6.25	10	1.93	11.30	0.72	10	-	11.3	4.25	4	0.53	18.39	14.76	24.86	1.625	4.00	1.416	0.375	2.91	1 1/4"	
284TSC	7	11	2.20	12.60	0.78	9.5	-	11.18	4.75	4	0.53	19.70	16.29	24.65	1.625	3.25	1.416	0.375	1.91	1 1/2"	
284TC	7	11	2.20	12.60	0.78	9.5	-	11.18	4.75	4	0.53	19.70	16.29	26.02	1.875	4.62	1.591	0.500	3.28	1 1/2"	
286TSC	7	11	2.20	12.60	0.78	11	-	12.68	4.75	4	0.53	19.70	16.29	26.15	1.625	3.25	1.416	0.375	1.91	1 1/2"	
286TC	7	11	2.20	12.60	0.78	11	-	12.68	4.75	4	0.53	19.70	16.29	27.52	1.875	4.62	1.591	0.500	3.28	1 1/2"	
324TSC	8	12.5	2.44	14.33	1.11	-	10.5	13.78	5.25	12	0.66	23.19	18.6	31.53	1.875	3.75	1.591	0.500	2.03	2"	
324TC	8	12.5	2.36	14.33	1.11	-	10.5	13.78	5.25	12	0.66	23.19	18.6	33.03	2.125	5.25	1.845	0.500	3.91	2"	
326TSC	8	12.5	2.44	14.33	1.11	12	-	13.78	5.25	12	0.66	23.19	18.6	31.53	1.875	3.75	1.591	0.500	2.03	2"	
326TC	8	12.5	2.36	14.33	1.11	12	-	13.78	5.25	12	0.66	23.19	18.6	33.03	2.125	5.25	1.845	0.500	3.91	2"	

Frame Size	C-FACE								Shaft & Keyway					Fig.
	AJ	AK	BB	BC	BD	BF	n	DEPTH	U	N-W	R	S	ES(Length)	
143TC	5.875	4.50	0.16	0.12	6.50	3/8-16	4	0.56	0.875	2.25	0.771	0.188	1.41	A
145TC	5.875	4.50	0.16	0.12	6.50	3/8-16	4	0.56	0.875	2.25	0.771	0.188	1.41	
182TC	7.25	8.50	0.25	0.12	8.70	1/2-13	4	0.75	1.125	2.75	0.986	0.250	1.78	
184TC	7.25	8.50	0.25	0.12	8.70	1/2-13	4	0.75	1.125	2.75	0.986	0.250	1.78	
213TC	7.25	8.50	0.25	0.25	9.00	1/2-13	4	0.75	1.375	3.38	1.201	0.312	2.41	
215TC	7.25	8.50	0.25	0.25	9.00	1/2-13	4	0.75	1.375	3.38	1.201	0.312	2.41	
254TC	7.25	8.50	0.25	0.25	9.68	1/2-13	4	0.75	1.625	4.00	1.416	0.375	2.91	
256TC	7.25	8.50	0.25	0.25	9.68	1/2-13	4	0.75	1.625	4.00	1.416	0.375	2.91	
284TSC	9.0	10.50	0.25	0.25	10.90	1/2-13	4	0.75	1.625	3.25	1.416	0.375	1.91	
284TC	9.0	10.50	0.25	0.25	10.90	1/2-13	4	0.75	1.875	4.62	1.591	0.500	3.28	
286TSC	9.0	10.50	0.25	0.25	10.90	1/2-13	4	0.75	1.625	3.25	1.416	0.375	1.91	
286TC	9.0	10.50	0.25	0.25	10.90	1/2-13	4	0.75	1.875	4.62	1.591	0.500	3.28	
324TSC	11.0	12.50	0.25	0.25	13.27	5/8-11	4	0.94	1.875	3.75	1.591	0.500	2.03	
324TC	11.0	12.50	0.25	0.25	13.27	5/8-11	4	0.94	2.125	5.25	1.845	0.500	3.91	
326TSC	11.0	12.50	0.25	0.25	13.27	5/8-11	4	0.94	1.875	3.75	1.591	0.500	2.03	
326TC	11.0	12.50	0.25	0.25	13.27	5/8-11	4	0.94	2.125	5.25	1.845	0.500	3.91	

Fig. A
143 - 326Fr.

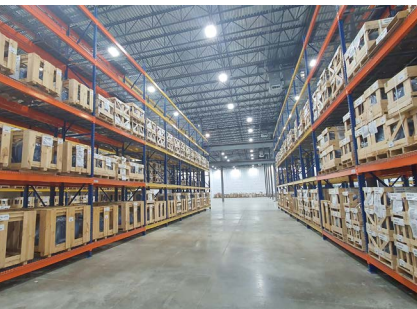


Products in Stock (Location)



In-Stock and Ready to Ship

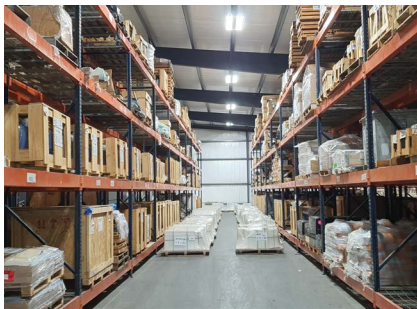
Our goal and value lie in holding the products our customers need in stock and swiftly responding to their demands, making them more competitive.



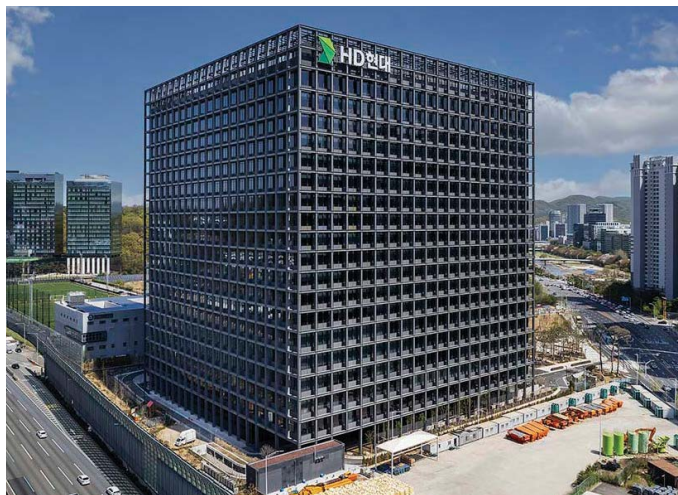
Warehouse in stock I La Porte, TX



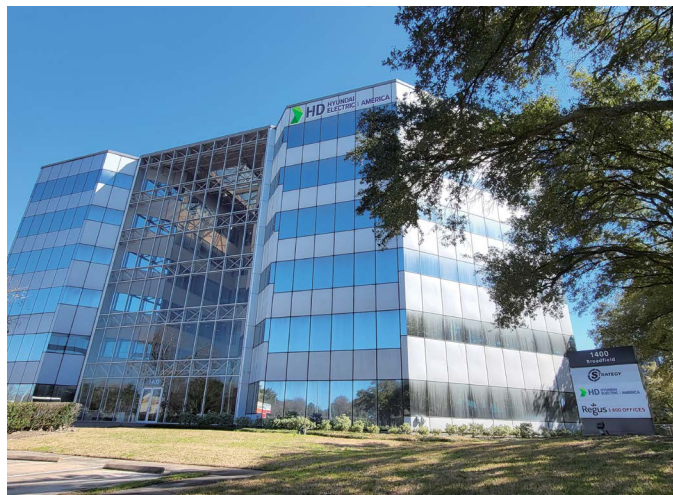
Warehouse in stock I Duluth, GA



Warehouse in stock I Pewaukee, WI



HD HYUNDAI HEADQUARTERS (South Korea)



HD HYUNDAI ELECTRIC AMERICA (Houston, U.S)



<https://www.hd-hyundaielectric.com/elect/en/index.jsp>

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