

API661 Severe Duty Motors



Why HD Hyundai's API Model ?

HD Hyundai's API Model is specifically designed to meet the key requirements of API 661.

Additionally, its performance is compliant with the IEEE 841-2021 specification.

Experience a durable API Model with excellent performance, built on HD Hyundai's 40 years of engineering & manufacturing expertise, now available at a **reasonable price**.

Technical Data

The API661 motors are built in compliance with API Standard 661, incorporating regreasable roller bearings and ProTech™ Bearing Isolator Seal at both ends of the 184-365 frame.

Horse Power

5~75HP

Frame Size

184T~365T

Bearing

**Min. 40,000hr
L10 life**

Protection

IP56

warranty

5 Years

Quality

**IEEE841 Test
Report**

Inverter Use

**As per NEMA
MG-1 Part 31**

Compliance to

API661

Main Industries for Heat Exchanger Applications



- Refineries
- Petrochemical Plants
- Natural Gas Processing Plants
- Power Plants
- Industrial Cooling Systems



Key Features of API 661 Motors in Heat Exchanger Applications

- API661 Motors are built to meet and exceed global standards including API661 and IEEE841, ensuring superior performance, durability, and reliability.
- ProTech™ Bearing Isolator Seal rated IP56 on both bearings + DE umbrella Slinger
- Roller bearing on DE for min 40,000 L-10 bearing life on belted loads (184T and larger)
- Stainless Steel long grease nipple and T-drain
- Hazardous locations, Certified to be used in Class I, Division 2
- Shaft End Tapped for vertical lifting
- CAST IRON construction(Frame, End shield Conduit box and fan cover)
- Gasketed conduit box and cover

NEMA LOW VOLTAGE API661 Severe Duty MOTOR (API Model)**Product Features (Basic)**

Frame	184 ~ 365
HP	5 HP ~ 75 HP
Speed (RPM)	1800, 1200
Hz & Voltage (Dual Frequency Design)	60Hz : 460V ★ 50Hz : 380V, 400V & 415V
Mounting	★ Vertical Shaft up with Foot & umbrella Slinger
Enclosure / Protection	★ TEFC / IP56
Rotation	Bi-directional
Painting	Epoxy Zinc with Polyurethane top coat (Munsell 7.5BG6/1.5)
Warranty	★ 5 Years Warranty from Date of shipment
Ambient temperature	40°C
Insulation Class	F

Product Features (Details)

Starting Method	Sine Wave Power	1.15 Service Factor & B Temp. rise
	Inverter Duty 10:1 VT	1.0 Service Factor & F Temp. rise
	Inverter Duty 20:1 VT (at 50% load)	1.0 Service Factor & F Temp. rise
	Inverter Duty 10:1 CT	1.0 Service Factor & F Temp. rise
	Inverter Duty 10:1 CT (1 Hour duty)	1.0 Service Factor & F Temp. rise Fr. 254-365
	Inverter Duty 4:1 CT	1.0 Service Factor & F Temp. rise Fr. 254-365
	Constant HP	CHP up to 1.5 times base speed
Material	Frame	Cast iron
	Rotor	Aluminum die casting
	End-shield	Cast iron
	Fan	Non-sparking conductive plastic fan
	Fan cover	Cast iron
Bearing	Drive end	Ball Bearing NU Bearing (Fr. 184~)
	Non-Drive end	Anti-friction bearing (Ball)
	Protection	ProTech™ Bearing Isolator Seal on DE & NDE
	Inner Bearing Cap	Applied(Cast iron)
	Lubrication	Polyrex EM Grease
Shaft	Material	AISI1045
	DE threaded hole	Applied
	DE Keyway	Opened keyway
Terminal box	Material	Cast Iron
	Cable hole plug	Plastic
Lead cable	Number of lead wire(s)	★ 3 Lead(s) Fr. 184-326
	Number of lead wire(s)	★ 6 Lead(s) Fr. 364~365
Drain Plug	Frame	Both sides of frame bottom
	Box	None
	Grease outlet	Applied
Certification	CSA	Class I, Division 2, Groups A, B, C & D Class II, Division 2, Groups E, F & G Group E : Up to Fr. 326 Premium Efficiency (CSA C-390)
	DOE	Department of Energy Efficiency Certification #CC038A
	UL	Recognized Motor Components (E211828) Recognized Insulation Materials (E210479)
	CE	CE Declaration of Conformity (EN 60034-1)
	IEEE45	Marine Duty (ABS Product Type Approval)
Name plate	Markings	★ CSA ,CC(DOE), UL Recognized, CE, IEEE 45(ABS), IEEE 841, API 661
	Material	Stainless Steel AISI304

※ Note : Features marked with a star (★)

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