



Customer information packet

VEM3661T

3HP, 1755RPM, 3PH, 60HZ, 182TC, 0632M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CURUSEEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	8.200 A @ 230.0 V 8.600 A @ 208.0 V 4.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	Q
Type	AC
Mech. spec.	06H016
Base	
Status	PRD/A
Elec. spec.	06WGX181
Layout	06LYH016
Eff. date	06-09-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	10-04-2011

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.98 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1755 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441LUA

CAT.NO.	VEM3661T									
SPEC	06H016X181G1									
HP	3									
VOLTS	230/460									
AMPS	8.2/4.1									
RPM	1755									
FRAME	182TC		HZ	60			PH	3		
SF	1.15		CODE	J	DES	B	CLASS	F		
NEMA NOM. EFF	89.5		PF	77						
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC		SER							
DE	6206		ODE	6205						
VPWM INVERTER READY			SFA 9.2/4.6							
CT6-60H(10:1)VT3-60H(20:1										
	50Hz 3HP 190/380V 9.6/4.8A								SF1.0	

AC Induction Motor Performance Data

Record # 35861

Typical performance - not guaranteed values

Winding: 06WGX181-R006			Type: 0632M		Enclosure: TEFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		3	Full Load Torque		9.06 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		8.2/4.1	Breakdown Torque		33.1 LB-FT			
R.P.M.		1755	Pull-up Torque		18.2 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		20.4 LB-FT		
NEMA Design Code		B	KVA Code	J	Starting Current		29.8 A	
Service Factor (S.F.)		1.15	No-load Current		2.14 A			
NEMA Nom. Eff.		89.5	Power Factor		7	7	Line-line Res. @ 25°C	3.94 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		35°C	
S.F. Amps					Temp. Rise @ S.F. Load		42°C	
					Locked-rotor Power Factor		41	
					Rotor inertia		0.298 LB-FT2	

Load Characteristics 460 V, 60 Hz, 3 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	38	58	70	77	81	83	79
Efficiency	83.2	88.3	89.8	89.7	89.1	87.7	89.3
Speed	1790	1779	1769	1757	1744	1730	1749
Line amperes	2.34	2.79	3.39	4.1	4.91	5.86	4.59

ABB Motors and Mechanical Inc.

WINDING # 06WGX181

Typical performance - not guaranteed values.

3 HP 3 PH 60 HZ 1755 RPM 460 V 0632M

TORQUES (LB-FT): PO=33.1 PU=18.2 LR=20.4 LRA=29.8





