



Customer information packet

VEM3663T

5HP, 3480RPM, 3PH, 60HZ, 184TC, 0628M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	12.400 A @ 208.0 V 5.800 A @ 460.0 V 11.600 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	88.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part detail

Revision	J
Type	AC
Mech. spec.	06C103
Base	
Status	PRD/A
Elec. spec.	06WGX782
Layout	06LYC103
Eff. date	05-21-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	05-07-2015

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	5.8 a
Insulation Class	F
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
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	0628M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	15.98 IN
Power Factor	90
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	3480 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.	VEM3663T									
SPEC	06C103X782G1									
HP	5									
VOLTS	230/460									
AMPS	11.6/5.8									
RPM	3480									
FRAME	184TC		HZ	60			PH	3		
SF	1.15		CODE	L	DES	A	CLASS	F		
NEMA NOM. EFF	88.5		PF	90						
RATING	40C AMB-CONT									
CC	010A									
ENCL	TEFC		SER							
DE	6206		ODE	6205						
VPWM INVERTER READY										
CT6-60H(10:1)VT3-60H(20:1										
50Hz 5HP 190/380V 14/7A										SF1.0

AC Induction Motor Performance Data

Record # 53080

Typical performance - not guaranteed values

Winding: 06WGX782-R005			Type: 0628M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		5	Full Load Torque		7.55 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		11.6/5.8	Breakdown Torque		35.8 LB-FT		
R.P.M.		3480	Pull-up Torque		23.1 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		27.7 LB-FT	
NEMA Design Code		A	KVA Code		L		
Service Factor (S.F.)		1.15	No-load Current		2.05 A		
NEMA Nom. Eff.		88.5	Power Factor		90		
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		57°C
S.F. Amps			Temp. Rise @ S.F. Load		71°C		

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	77	87	91	93	94	92
Efficiency	85.8	89.9	90.1	89.3	87.9	86.2	88.5
Speed	3573.6	3546.9	3516.7	3485.2	3451.8	3413.3	3465
Line amperes	2.45	3.35	4.53	5.8	7.17	8.69	6.62

ABB Motors and Mechanical Inc.

WINDING # 06WGX782

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3480 RPM 460 V 0628M

TORQUES (LB-FT): PO=35.8 PU=23.1 LR=27.7 LRA=59.9





