

ABB BALDOR RELIANCE III

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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM NEMA PREMIUM (OLD LOGO)
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	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
Front Face Code	Standard
Front Shaft Indicator	None

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

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		Starting Current		59.9 A
Service Factor (S.F.)		1.15		No-load Current		2.05 A
NEMA Nom. Eff.		88.5 Power Factor 90		Line-line Res. @ 25°C		2.7676 Ω
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





