

ABB BALDOR RELIANCE III

Customer information packet

EM3663T-G

5HP, 3480RPM, 3PH, 60HZ, 184T, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184T
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 208.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM NEMA_PREMIUM CURUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	11.600 A @ 230.0 V 12.400 A @ 208.0 V 5.800 A @ 460.0 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
Heater Indicator	No Heater

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX782
Layout	06LYG729
Eff. date	01-09-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	04-09-2019

High Voltage Full Load Amps	5.8 a
Insulation Class	H
Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
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	15.23 IN
Power Factor	90
Product Family	General Purpose
Pulley Face Code	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
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.	EM3663T-G								
SPEC	06-0000-0080								
HP	5								
VOLTS	208-230/460								
AMPS	12.4-11.6/5.8								
RPM	3480								
FRAME	184T		HZ	60		PH	3		
SF	1.15	CODE	L	DES	A	CLASS	H		
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 # 108383

Typical performance - not guaranteed values

Winding: 06WGX782-R020			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		208-230/460	Start Configuration		direct on line	
Full Load Amps		12.4-11.6/5.8	Breakdown Torque		35.8 LB-FT	
R.P.M.		3480	Pull-up Torque		23.1 LB-FT	
Hz		60	Locked-rotor Torque		27.7 LB-FT	
NEMA Design Code		A	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	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps					Temp. Rise @ S.F. Load	
					Locked-rotor Power Factor	
					Rotor inertia	

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





