

ABB BALDOR RELIANCE III

Customer information packet

EM3663T

5HP, 3480RPM, 3PH, 60HZ, 184T, 0628M, 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	208.0 V @ 60 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CURUSEEV NEMA PREMIUM
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	5.800 A @ 460.0 V 12.400 A @ 208.0 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 Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	F
Type	AC
Mech. spec.	06H002
Base	
Status	PRD/A
Elec. spec.	06WGY578
Layout	06LYH002
Eff. date	02-06-2025
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	08-30-2018

High Voltage Full Load Amps	5.8 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No 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 End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3475 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								
SPEC	06H002Y578G1								
HP	5								
VOLTS	208-230/460								
AMPS	12.4-11.6/5.8								
RPM	3475								
FRAME	184T		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	SFA 15-14/7								
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 5HP 190/380V 14/7A								

Accessories

Part number	Description	Multiplier
36-1749	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 84210

Typical performance - not guaranteed values

Winding: 06WGY578-R001				Type: 0628M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5		Full Load Torque		7.579 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		11.6/5.8		Breakdown Torque		31.2 LB-FT	
R.P.M.		3480		Pull-up Torque		18.3 LB-FT	
Hz		60 Phase		3		Locked-rotor Torque	
NEMA Design Code		A		KVA Code		L	
Starting Current		57.4 A		No-load Current		2.02 A	
Service Factor (S.F.)		1.15		Line-line Res. @ 25°C		2.9991 Ω	
NEMA Nom. Eff.		88.5		Power Factor		91	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		61°C	
S.F. Amps				Temp. Rise @ S.F. Load		77°C	
				Locked-rotor Power Factor		53.6	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	57	78	87	91	92	93	92
Efficiency	86.5	90.2	90.2	89.1	87.6	85.6	88.2
Speed	3567.1	3539.3	3508.7	3476	3440.1	3400.5	3454
Line amperes	2.43	3.35	4.51	5.81	7.25	8.82	6.67

ABB Motors and Mechanical Inc.

WINDING # 06WGY578

Typical performance - not guaranteed values.

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

TORQUES (LB-FT): PO=31.2 PU=18.3 LR=24.7 LRA=57.4





