

ABB BALDOR RELIANCE III

Customer information packet

EM3661T-BG

3HP, 1755RPM, 3PH, 60HZ, 182T, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	182T
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	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM UR
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	8.600 A @ 208.0 V 8.200 A @ 230.0 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
Heater Indicator	No Heater

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	06WGX181
Layout	06LYK800
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	04-11-2019

High Voltage Full Load Amps	4.1 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0632M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.24 IN
Power Factor	77
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	1755 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3441LUA									
CAT.NO.	EM3661T-BG								
SPEC	06-0000-0088								
HP	3								
VOLTS	230/460								
AMPS	8.2/4.1								
RPM	1755								
FRAME	182T		HZ	60		PH	3		
SF	1.15	CODE	J	DES	B	CLASS	H		
NEMA NOM. EFF	89.5	PF	77						
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 3HP 190/380V 9.6/4.8A							SF1.0	

AC Induction Motor Performance Data

Record # 75468

Typical performance - not guaranteed values

Winding: 06WGX181-R017			Type: 0632M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		3	Full Load Torque		9.08 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		77	Line-line Res. @ 25°C	3.93 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		41.4		
			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	83.5	88.9	90	89.8	89.1	87.7	89.4
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





