

ABB BALDOR RELIANCE III

Customer information packet

EM3664T-BG

2HP, 1165RPM, 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	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	6.600 A @ 208.0 V 6.300 A @ 230.0 V 3.150 A @ 460.0 V
Design Code	B
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.	06WGW970
Layout	06LYK800
Eff. date	04-29-2024
CD Diagram	CD0005
Poles	06
Leads	9#16
Proprietary	False
Created date	04-11-2019

High Voltage Full Load Amps	3.2 a
Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0642M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.24 IN
Power Factor	68
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	1165 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.	EM3664T-BG								
SPEC	06-0000-0089								
HP	2								
VOLTS	230/460								
AMPS	6.3/3.15								
RPM	1165								
FRAME	184T		HZ	60			PH	3	
SF	1.15		CODE	K	DES	B	CLASS	H	
NEMA NOM. EFF	88.5		PF	68					
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 2HP 190/380V 7.4/3.7A									SF1.0

AC Induction Motor Performance Data

Record # 75469

Typical performance - not guaranteed values

Winding: 06WGW970-R006			Type: 0642M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		2	Full Load Torque		9.05 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		6.3/3.15	Breakdown Torque		31.2 LB-FT	
R.P.M.		1165	Pull-up Torque		16.7 LB-FT	
Hz		60	Phase		3	
NEMA Design Code		B	KVA Code		K	
Service Factor (S.F.)		1.15	No-load Current		20.9 A	
NEMA Nom. Eff.		88.5	Power Factor		68	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		27°C
S.F. Amps				Temp. Rise @ S.F. Load		32°C
				Locked-rotor Power Factor		28.5
				Rotor inertia		0.395 LB-FT2

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	48	60	68	73	75	71
Efficiency	79.1	86.3	88	88.6	87.3	86.3	87.8
Speed	1193	1186	1178	1170	1161	1150	1165
Line amperes	1.97	2.26	2.67	3.14	3.68	4.33	3.46

ABB Motors and Mechanical Inc.

WINDING # 06WGW970

Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1165 RPM 460 V 0642M

TORQUES (LB-FT): PO=31.2 PU=16.7 LR=19.9 LRA=20.9





