

ABB BALDOR RELIANCE III

Customer information packet

VHEM3212T

5HP, 3440RPM, 3PH, 60HZ, 184HP, 0624M, ODP, W6

Class - None

Division - Not Applicable

Specifications

Enclosure	ODP
Frame	184HP
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	CSA CSA EEV UR
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	12.600 A @ 208.0 V 5.600 A @ 460.0 V 11.300 A @ 230.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	G
Type	AC
Mech. spec.	06F867
Base	
Status	NLA/A
Elec. spec.	06WGY461
Layout	06LYF867
Eff. date	03-02-2022
CD Diagram	CD0005
Poles	02
Leads	9#16
Proprietary	False
Created date	07-07-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	5.6 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Vertical 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	0624M
Mounting Arrangement	W6
Number of Poles	2
Overall Length	21.33 IN
Power Factor	93
Product Family	Weather Proof
Pulley End Bearing Type	Ball
Pulley Face Code	P-Base
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	3440 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

NP1267L											
CAT.NO.											
SPEC.	06F867Y461G1										
HP	5										
VOLTS	230/460										
AMP	11.3/5.6										
RPM	3440										
FRAME	184HP		HZ	60				PH	3		
SER.F.	1.15	CODE	J	DES	B	CL	F				
NEMA-NOM-EFF	86.5	PF	93								
RATING	40C AMB-CONT										
CC	010A										
DE	6308		ODE	6205							
ENCL	ODP	SN									

AC Induction Motor Performance Data

Record # 51679

Typical performance - not guaranteed values

Winding: 06WGY461-R001			Type: 0624M		Enclosure: ODP	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		5	Full Load Torque		7.62 LB-FT	
Volts		230/460	Start Configuration		direct on line	
Full Load Amps		11.3/5.6	Breakdown Torque		28.1 LB-FT	
R.P.M.		3440	Pull-up Torque		17.8 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	21.4 LB-FT	
NEMA Design Code	B	KVA Code	J	Starting Current	46.2 A	
Service Factor (S.F.)		1.15	No-load Current		1.53 A	
NEMA Nom. Eff.	86.5	Power Factor	93	Line-line Res. @ 25°C	3.22 Ω	
Rating - Duty		40C AMB-CONT	Temp. Rise @ Rated Load		61°C	
S.F. Amps			Temp. Rise @ S.F. Load		78°C	
			Locked-rotor Power Factor		47.9	
			Rotor inertia		0.107 LB-FT2	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	66	85	91	93	94	94	94
Efficiency	87.4	90.5	90.1	88.7	86.7	84.2	87.5
Speed	3566	3532	3493	3452	3408	3355	3426
Line amperes	2.03	3.03	4.31	5.68	7.16	8.83	6.57

ABB Motors and Mechanical Inc.

WINDING # 06WGY461

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 3440 RPM 460 V 0624M

TORQUES (LB-FT): PO=28.1 PU=17.8 LR=21.4 LRA=46.2





