

ABB BALDOR RELIANCE III

Customer information packet

VFDL3612TM

5HP, 1725RPM, 1PH, 60HZ, 184TC, 3646LC, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	184TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	5.000 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
Agency Approvals	UR CSA
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	23.000 A @ 230.0 V
Design Code	L
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	23.0 a
Insulation Class	F
Inverter Code	Not Inverter

Part Detail

Revision	K
Type	AC
Mech. spec.	36Q158
Base	
Status	PRD/A
Elec. spec.	36WGW279
Layout	36LYQ158
Eff. date	07-25-2024
CD Diagram	CD0152
Poles	04
Leads	2#10 A PH,3#16 B&J
Proprietary	False
Created date	12-03-2013

KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	2 @ 10 AWG, A PH
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3646LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	18.33 IN
Power Factor	88
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1725 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	Manual Thermal Overload
Winding Thermal 1 Location	KO
Winding Thermal 2	None

Nameplate

NP1280L									
CAT.NO.	VFDL3612TM								
SPEC.	36Q158W279G1								
HP	5								
VOLTS	230								
AMP	23								
RPM	1725								
FRAME	184TC		HZ	60		PH		1	
SER.F.	1.00		CODE	J		DES	L	CL	F
NEMA-NOM-EFF	80		PF	88					
RATING	40C AMB-CONT								
CC									
DE	6206		ODE	6205					
ENCL	TEFC		SN						

AC Induction Motor Performance Data

Record # 10712

Typical performance - not guaranteed values

Winding: 36GW279-R001			Type: 3646LC		Enclosure: TEFC		
Nameplate Data			230 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		5	Full Load Torque		15 LB-FT		
Volts		230	Start Configuration		direct on line		
Full Load Amps		23	Breakdown Torque		43 LB-FT		
R.P.M.		1725	Pull-up Torque		36 LB-FT		
Hz	60	Phase	1	Locked-rotor Torque		46 LB-FT	
NEMA Design Code		J	Starting Current		163 A		
Service Factor (S.F.)		1	No-load Current		10 A		
NEMA Nom. Eff.	80	Power Factor	88	Line-line Res. @ 25°C		0.353 Ω A Ph 2.23 Ω B Ph	
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		97°C

Load Characteristics 230 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	54	71	85	89	89	91
Efficiency	65	76.1	81.5	80.8	79.3	75.5
Speed	1786	1769	1750	1732	1713	1687
Line amperes	12.7	14	18.5	22.6	27.3	33.5

ABB Motors and Mechanical Inc.

WINDING # 36WG279

Typical performance - not guaranteed values.

5 HP 1 PH 60 HZ 1725 RPM 230 V 3646LC

TORQUES (LB-FT) : PO=43 PU=36 LR=46 LRA=163





