

ABB BALDOR RELIANCE III

Customer information packet

AEM4100-4

15HP, 1180RPM, 3PH, 60HZ, 324U, 1248M, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	324U
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	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	65 °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	19.100 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
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	19.1 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	J
Type	AC
Mech. spec.	12H79
Base	
Status	PRD/A
Elec. spec.	12WGY728
Layout	12LYH079
Eff. date	08-01-2023
CD Diagram	CD0006
Poles	06
Leads	3#12
Proprietary	False
Created date	02-21-2015

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Ring Terminals
Motor Standards	NEMA
Motor Type	1248M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	30.66 IN
Power Factor	79
Product Family	Automotive (Not For DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1180 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

NP1404									
CAT.NO.									
SPEC.	12H079Y728G1								
VOLTS	460								
AMP	19.1								
RPM	1180			HP		15			
FRAME	324U	HZ		60		PH		3	
SER.F.	1.00	CODE		G	DES		B	CL F	
NEMA-NOM-EFF	91.7	PF		79					
G.MIN.EFF	90.2	CC		010A					
RATING	65C AMB-CONT								
LUBRICATION	POLYREX EM								
DE	6312	ODE		6311					
ENCL	TEFC	SER. #							

Accessories

Part number	Description	Multiplier
12-1105	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 49351

Typical performance - not guaranteed values

Winding: 12WGY728-R004			Type: 1248M		Enclosure: TEFC			
Nameplate Data				460 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		15		Full Load Torque		66.7 LB-FT		
Volts		460		Start Configuration		direct on line		
Full Load Amps		19.1		Breakdown Torque		181 LB-FT		
R.P.M.		1180		Pull-up Torque		71 LB-FT		
Hz		60	Phase	3	Locked-rotor Torque		104 LB-FT	
NEMA Design Code		B		KVA Code	G	Starting Current		116 A
Service Factor (S.F.)		1		No-load Current		7.94 A		
NEMA Nom. Eff.		91.7	Power Factor		79	Line-line Res. @ 25°C		0.576 Ω
Rating - Duty		65C		AMB-CONT		Temp. Rise @ Rated Load		29°C
						Locked-rotor Power Factor		30
						Rotor inertia		9.17 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	46	67	76	80	82	82
Efficiency	85.7	90.7	92.1	92.1	91.4	90.2
Speed	1195	1191	1187	1182	1178	1171
Line amperes	9.07	11.6	15.1	19.1	23.5	29.5

ABB Motors and Mechanical Inc.

WINDING # 12WGY728

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 1180 RPM 460 V 1248M

TORQUES (LB-FT): PO=181 PU=71 LR=104 LRA=116





