

ABB BALDOR RELIANCE III

Customer information packet OF3768T

5HP, 1125RPM, 3PH, 60HZ, 215T, 0750M, TEFC, F2

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215T
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	1200 RPM @ 60 HZ
Voltage @ Frequency	796.0 V @ 60 HZ 460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA 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	7.600 A @ 460.0 V 4.400 A @ 796.0 V 15.200 A @ 230.0 V
Design Code	D
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

Part Detail

Revision	AA
Type	AC
Mech. spec.	07J798
Base	
Status	INA/A
Elec. spec.	07WGX305
Layout	07LYJ798
Eff. date	03-08-2021
CD Diagram	CD0321
Poles	06
Leads	12#12 Y
Proprietary	False
Created date	01-01-0001

Heater Indicator	No Heater
High Voltage Full Load Amps	4.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	12 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0750M
Mounting Arrangement	F2
Number of Poles	6
Overall Length	19.32 IN
Power Factor	76
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1125 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP2960E									
CAT.NO.									
SPEC.	07J798X305G1								
HP	5								
VOLTS	230/460/796								
AMP	15.2/7.6/4.4								
RPM	1125								
FRAME	215T		HZ	60		PH	3		
SER.F.	1.15	CODE	J	DES	D	CL	F		
NEMA-NOM-EFF	80	PF	76						
RATING	40C AMB-CONT								
CC				USABLE AT 208V		N/A			
DE	6307	ODE	6206						
ENCL	TEFC	SN							

NP0090E	
FRONT	6206
PULLEY	6307
LUBRICATE WITH	
GREASE	POLYREX EM

Accessories

Part number	Description	Multiplier
37-1304	C FACE KIT	A8

AC Induction Motor Performance Data

Record # 1157

Typical performance - not guaranteed values

Winding: 07WGX305-R001			Type: 0750M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: 2nd Voltage Connection				
Rated Output (HP)		5	Full Load Torque		23.7 LB-FT		
Volts		230/460/796	Start Configuration		direct on line		
Full Load Amps		15.2/7.6/4.4	Breakdown Torque		103 LB-FT		
R.P.M.		1125	Pull-up Torque		79.4 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		109 LB-FT	
NEMA Design Code		D	KVA Code	J	Starting Current		46.7 A
Service Factor (S.F.)		1.15		No-load Current		4.2 A	
NEMA Nom. Eff.		80	Power Factor	76	Line-line Res. @ 25°C		1.6965 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		82°C	
S.F. Amps				Temp. Rise @ S.F. Load		105°C	

Load Characteristics 460 V, 60 Hz, 5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	33	54	69	76	81	84	79
Efficiency	74.2	82.1	82.5	80.6	77.5	72.8	78.7
Speed	1180	1158	1129	1101	1069	1023	1082
Line amperes	4.3	4.94	6.21	7.63	9.16	11.6	8.55

ABB Motors and Mechanical Inc.

WINDING # 07WGX305

Typical performance - not guaranteed values.

5 HP 3 PH 60 HZ 1125 RPM 460 V 0750M

TORQUES (LB-FT): PO=103 PU=79.4 LR=109 LRA=46.7





