

ABB BALDOR RELIANCE III

Customer information packet

CEM7174T-I

10//7.5HP, 3490//2900RPM, 3PH, 60//50HZ, 215

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	215TC
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ 7.500 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 190.0 V @ 50 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CSA UL 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	21.600 A @ 190.0 V 23.600 A @ 230.0 V 11.800 A @ 460.0 V 11.000 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	M
Type	AC
Mech. spec.	07J232
Base	
Status	PRD/A
Elec. spec.	07WGY855
Layout	07LYJ232
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	11-25-2013

Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	X0730M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	20.78 IN
Power Factor	87
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
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	No Slinger
Speed	2900 rpm 3490 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

NP0977XPSLEV												
NO.							CC	010A				
SER.							TEMP CODE	T3C				
SPEC.	07J232Y855G1											
CAT.NO.	CEM7174T-I											
HP	10//7.5											
VOLTS	230/460//190/380											
AMPS	23.6/11.8//21.6/11											
RPM	3490//2900				MOTOR WEIGHT			212				
HERTZ	60//50	PH	3	CL	F	DE BRG	6307					
SER.F.	1.15	DES	B	CODE	G	ODE BRG			6206			
FRAME	215TC		GREASE		POLYREX EM							
RATING	40C AMB-CONT 55C AMB AT 1.0 SF											
				NEMA-NOM-EFF				90.2		PF	87	
	NEMA MG-1 PT 5,IP55											

AC Induction Motor Performance Data

Record # 36757

Typical performance - not guaranteed values

Winding: 07WGY855-R003			Type: 0730M		Enclosure: XPFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10//7.5		Full Load Torque		15.1 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		23.6/11.8//21.6/10.8		Breakdown Torque		56.3 LB-FT	
R.P.M.		3490//2900		Pull-up Torque		17.7 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		23.8 LB-FT	
NEMA Design Code		B	KVA Code	G	Starting Current		78.5 A
Service Factor (S.F.)		1.15		No-load Current		3.65 A	
NEMA Nom. Eff.		90.2	Power Factor	87	Line-line Res. @ 25°C		1.05 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		63°C	
S.F. Amps				Temp. Rise @ S.F. Load		79°C	
				Locked-rotor Power Factor		33.7	
				Rotor inertia		0.273 LB-FT2	

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	60	80	87	90	90	90	90
Efficiency	88.1	91.5	91.3	90.5	89.6	88.2	90.1
Speed	3576	3551	3525	3497	3465	3429	3476
Line amperes	4.55	6.56	8.97	11.6	14.5	17.7	13.4

ABB Motors and Mechanical Inc.

WINDING # 07WGY855

Typical performance - not guaranteed values.

10 HP 3 PH 60 HZ 3497 RPM 460 V 0730M

TORQUES (LB-FT): PO=56.3 PU=17.7 LR=23.8 LRA=78.5





