

ABB BALDOR RELIANCE III

Customer information packet

CESWDM3710T

7.5HP, 1770RPM, 3PH, 60HZ, 213TC, 3740M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	213TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV 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	19.000 A @ 230.0 V 9.500 A @ 460.0 V
Design Code	A
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

Part Detail

Revision	Y
Type	AC
Mech. spec.	37H888
Base	
Status	PRD/A
Elec. spec.	37WGT864
Layout	37LYH888
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	04
Leads	9#14
Proprietary	False
Created date	08-19-2006

High Voltage Full Load Amps	9.5 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
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	3740M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	19.81 IN
Power Factor	81
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS 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	Shaft Slinger
Speed	1770 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

NP1669L									
CAT.NO.	CESWDM3710T								
SPEC.	37H888T864G1								
HP	7.5								
VOLTS	230/460								
AMP	19/9.5								
RPM	1770								
FRAME	213TC		HZ	60			PH	3	
SER.F.	1.15	CODE	J	DES	A	CLASS		F	
NEMA-NOM-EFF	91.7	PF	81						
RATING	40C AMB-CONT								
CC	010A								
DE	6307		ODE	6206					
ENCL	TEFC	SN							
BLANK									

AC Induction Motor Performance Data

Record # 17300

Typical performance - not guaranteed values

Winding: 37WGT864-R001			Type: 3740M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		7.5	Full Load Torque		22.36 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		19.0/9.5	Breakdown Torque		73.15 LB-FT		
R.P.M.		1770	Pull-up Torque		39.79 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		47.81 LB-FT	
NEMA Design Code		A	KVA Code	J	Starting Current		74.95 A
Service Factor (S.F.)		1.15	No-load Current		4.4 A		
NEMA Nom. Eff.		91.7	Power Factor	81	Line-line Res. @ 25°C		1.27 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		69°C
S.F. Amps					Temp. Rise @ S.F. Load		85°C
					Locked-rotor Power Factor		36.4
					Rotor inertia		0.984 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	64	75	81	83	85	82
Efficiency	86.6	90.9	92	91.9	90.8	89.7	91.4
Speed	1793	1786	1779	1771	1761	1751	1764
Line amperes	4.88	6.02	7.67	9.52	11.62	13.91	10.7

ABB Motors and Mechanical Inc.

WINDING # 37WGT864

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 1770 RPM 460 V 3740M

TORQUES (LB-FT) : PO=73.15 PU=39.79 LR=47.81 LRA=74.95





