

ABB BALDOR RELIANCE III

Customer information packet

CEWDM2401T

7.5HP, 880RPM, 3PH, 60HZ, 256TC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	256TC
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA CSA EEV NEMA PREMIUM 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	24.200 A @ 230.0 V 12.100 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater

Part Detail

Revision	K
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT403
Layout	09LYG221
Eff. date	02-14-2024
CD Diagram	CD0005
Poles	08
Leads	9#12
Proprietary	False
Created date	08-13-2019

High Voltage Full Load Amps	12.1 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1350 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	23.57 IN
Power Factor	67
Product Family	Washdown Features
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	880 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.	CEWDM2401T								
SPEC.	09-0000-1710								
HP	7.5								
VOLTS	230/460 10:1CT/VT								
AMP	24.2/12.1								
RPM	880								
FRAME	256TC		HZ	60			PH	3	
SER.F.	1.00	CODE	J	DES	A	CLASS		F	
NEMA-NOM-EFF	86.5	PF	67						
RATING	40C AMB-CONT								
CC	010A								
DE	6309		ODE	6208					
ENCL	TEFC	SN							
BLANK	1.15SF ON SINEWAVE								

AC Induction Motor Performance Data

Record # 78169

Typical performance - not guaranteed values

Winding: 09WGT403-R007			Type: 0960M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		7.5		Full Load Torque		44.3 LB-FT
Volts		230/460		Start Configuration		direct on line
Full Load Amps		24.2/12.1		Breakdown Torque		105 LB-FT
R.P.M.		880		Pull-up Torque		58 LB-FT
Hz	60	Phase	3	Locked-rotor Torque		95.1 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		68.6 A
Service Factor (S.F.)		1		No-load Current		6.76 A
NEMA Nom. Eff.		86.5	Power Factor	Line-line Res. @ 25°C		1.246 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		68°C
				Locked-rotor Power Factor		27.9

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	30	49	60	67	70	72
Efficiency	80.8	86.8	87.4	86.6	85	82.9
Speed	896.4	892	887.4	882.3	875.8	868.3
Line amperes	7.16	8.42	10.1	12.1	14.7	17.6

ABB Motors and Mechanical Inc.

WINDING # 09WGT403

Typical performance - not guaranteed values.

7.5 HP 3 PH 60 HZ 880 RPM 460 V 0960M

TORQUES (LB-FT): PO=105 PU=58 LR=95.1 LRA=68.6





