

ABB BALDOR RELIANCE III

Customer information packet

CEWDM23932T

10HP, 1180RPM, 3PH, 60HZ, 256TC, 3956M, TEFC, F

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	256TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CSA EEV UR CSA
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	15.100 A @ 460.0 V 30.200 A @ 230.0 V 30.600 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
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	AH
Type	AC
Mech. spec.	39R098
Base	
Status	PRD/A
Elec. spec.	39WGX705
Layout	39LYR098
Eff. date	01-22-2025
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	06-14-2010

High Voltage Full Load Amps	15.1 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3956M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.57 IN
Power Factor	68
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP1669L									
CAT.NO.	CEWDM23932T								
SPEC.	39R098X705G1								
HP	10								
VOLTS	230/460								
AMP	30.2/15.1								
RPM	1180								
FRAME	256TC		HZ	60			PH	3	
SER.F.	1.00	CODE	K	DES	A	CLASS	F		
NEMA-NOM-EFF	91	PF	68						
RATING	40C AMB-CONT								
CC	010A								
DE	6309		ODE	6208					
ENCL	TEFC	SN							
BLANK	10:1 CT 20:1 VT								

AC Induction Motor Performance Data

Record # 35517

Typical performance - not guaranteed values

Winding: 39WGX705-R002			Type: 3956M		Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		10	Full Load Torque		44.3 LB-FT	
Volts		208-230/460	Start Configuration		direct on line	
Full Load Amps		30.6-30.2/15.1	Breakdown Torque		165 LB-FT	
R.P.M.		1180	Pull-up Torque		64.5 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		88.6 LB-FT
NEMA Design Code		A	KVA Code	Starting Current		107 A
Service Factor (S.F.)			1	No-load Current		8.63 A
NEMA Nom. Eff.		91	Power Factor	Line-line Res. @ 25°C		0.635 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		79°C
				Locked-rotor Power Factor		26
				Rotor inertia		4.5 LB-FT2

Load Characteristics 460 V, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	30	49	61	68	71	73
Efficiency	83	89.4	91.2	91.4	91	90.3
Speed	1196	1192	1187	1183	1177	1171
Line amperes	9.45	10.7	12.6	15.1	18	21.1

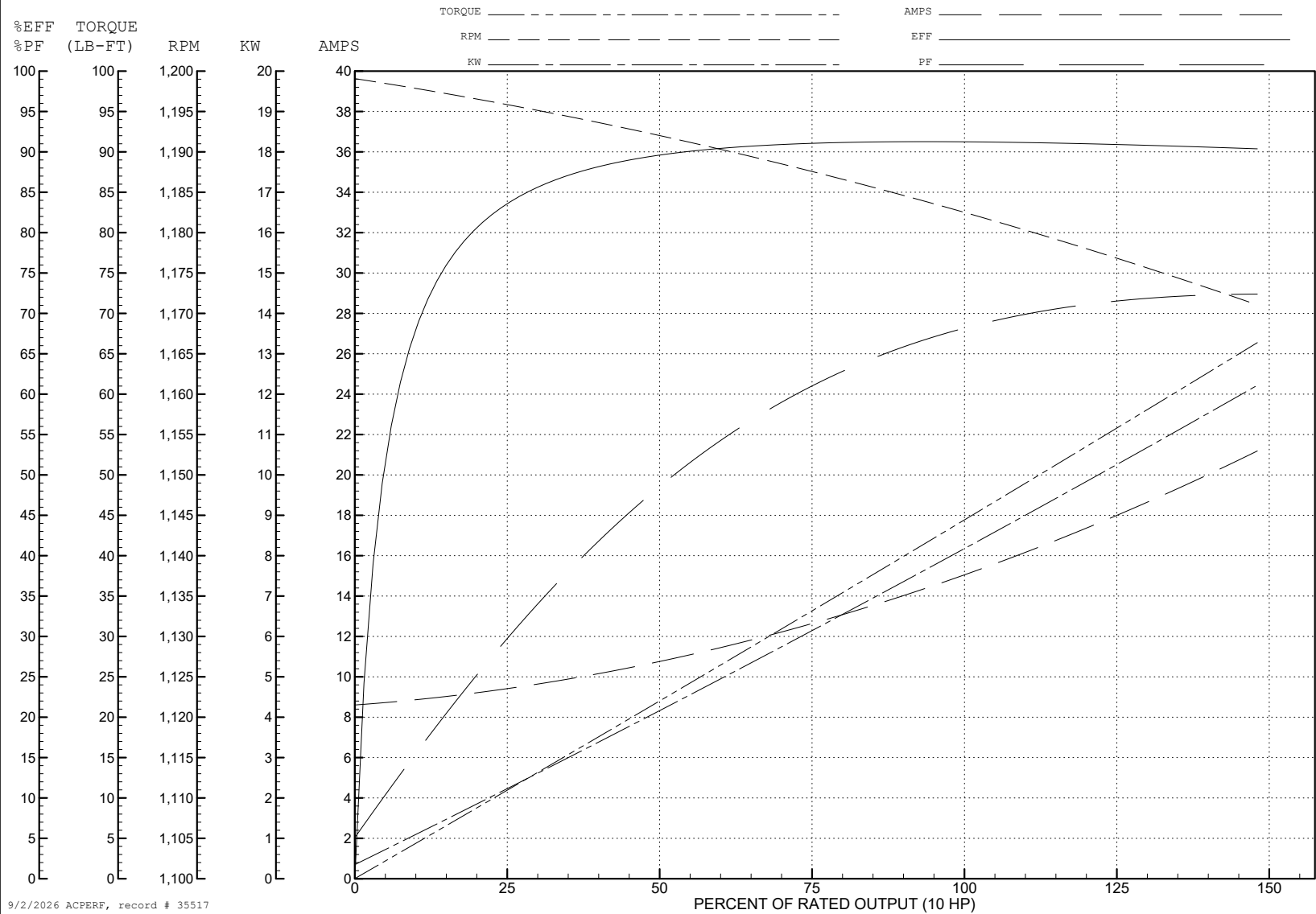
ABB Motors and Mechanical Inc.

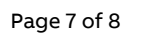
WINDING # 39WGX705

Typical performance - not guaranteed values.

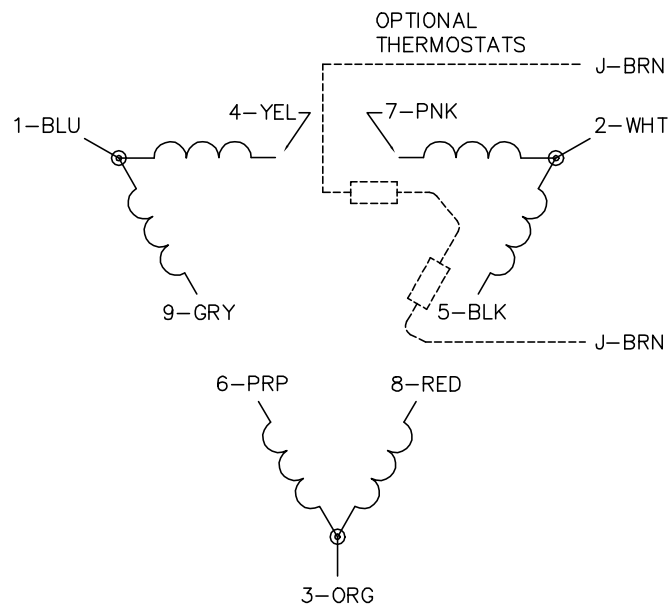
10 HP 3 PH 60 HZ 1180 RPM 460 V 3956M

TORQUES (LB-FT): PO=165 PU=64.5 LR=88.6 LRA=107

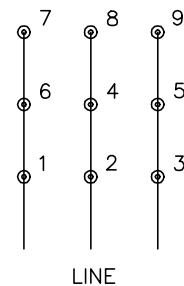




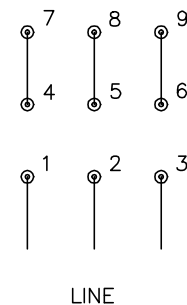
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -



BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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