

ABB BALDOR RELIANCE III

Customer information packet

CESSWDM23933T-5

15HP, 1765RPM, 3PH, 60HZ, 254TC, 3956M, TEFC, F

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
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	14.200 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	14.2 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing

Part Detail

Revision	AF
Type	AC
Mech. spec.	39E119
Base	
Status	PRD/A
Elec. spec.	39WGX761
Layout	39LYE119
Eff. date	06-04-2026
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	02-02-2011

Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3956M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	24.67 IN
Power Factor	85
Product Family	Wash Down All Stainless Steel
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
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	1765 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

NP1953D05											
CAT.NO.	CESSWDM23933T-5										
SPEC.	39E119X761G1										
HP	15										
VOLTS	575										
AMP	14.2										
RPM	1765										
FRAME	254TC				HZ		60		PH		3
SER.F.	1.15		CODE		H	DES		A	CLASS		F
NEMA-NOM-EFF	92.4		PF		85						
RATING	40C AMB-CONT										
CC	010A		USABLE AT 208V						N/A		
DE	6309		ODE		6208						
ENCL	TEFC	SN									
	2:1 CT/10:1 VT										

AC Induction Motor Performance Data

Record # 33432

Typical performance - not guaranteed values

Winding: 39WGX761-R001				Type: 3956M		Enclosure: TEFC	
Nameplate Data				575 V, 60 Hz: Single Voltage Motor			
Rated Output (HP)		15		Full Load Torque		44.6 LB-FT	
Volts		575		Start Configuration		direct on line	
Full Load Amps		14.2		Breakdown Torque		178 LB-FT	
R.P.M.		1765		Pull-up Torque		57.2 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		84.2 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		103 A
Service Factor (S.F.)		1.15		No-load Current		5.78 A	
NEMA Nom. Eff.		92.4	Power Factor	85	Line-line Res. @ 25°C		0.796 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		65°C	
S.F. Amps				Temp. Rise @ S.F. Load		80°C	
				Locked-rotor Power Factor		31.9	
				Rotor inertia		2.45 LB-FT2	

Load Characteristics 575 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	70	81	85	87	88	86
Efficiency	87.2	91.2	92.6	92.8	91.8	90.8	92.2
Speed	1792	1785	1777	1769	1760	1748	1764
Line amperes	6.74	8.72	11.2	14.2	17.5	21.7	16.2

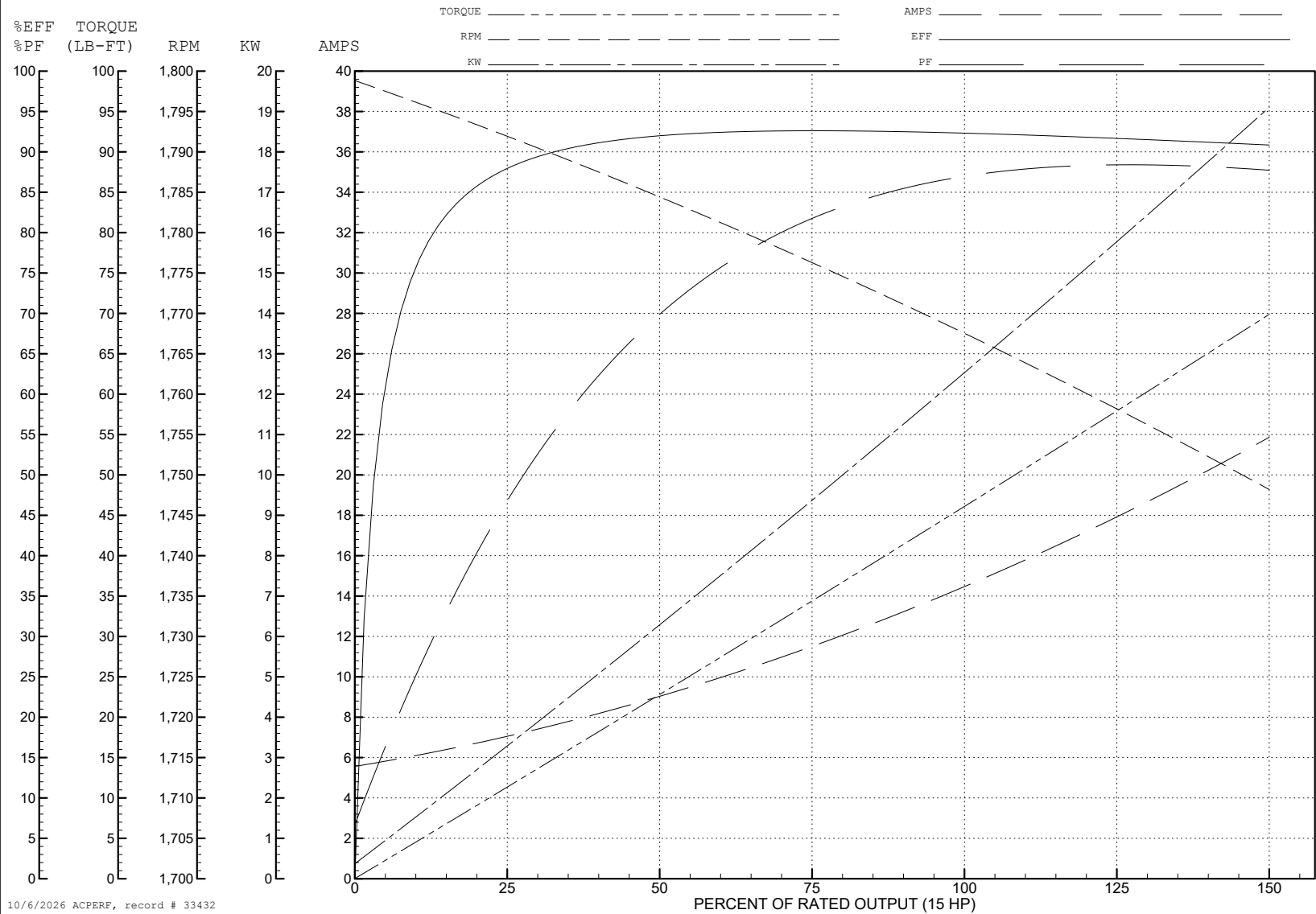
ABB Motors and Mechanical Inc.

WINDING # 39WGX761

Typical performance - not guaranteed values.

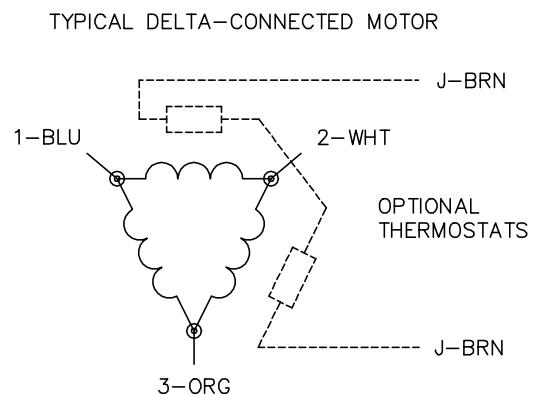
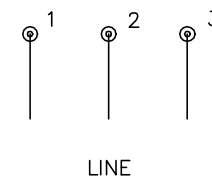
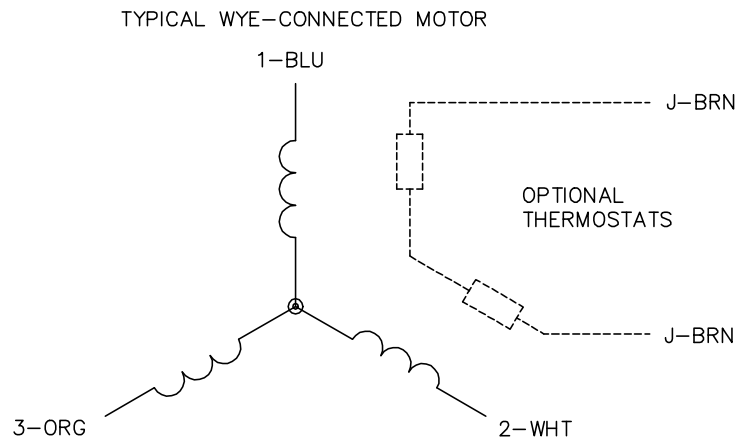
15 HP 3 PH 60 HZ 1765 RPM 575 V 3956M

TORQUES (LB-FT): PO=178 PU=57.2 LR=84.2 LRA=103





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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