

ABB BALDOR RELIANCE III

Customer information packet

CSWDM3537-5

.5HP, 3450RPM, 3PH, 60HZ, 56C, 3512M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56C
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	.650 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	70.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing

Part Detail

Revision	F
Type	AC
Mech. spec.	35S630
Base	
Status	PRD/A
Elec. spec.	35WGW038
Layout	35LYS630
Eff. date	09-11-2023
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	05-23-2018

Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.06 IN
Power Factor	76
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	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3450 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1496L											
CAT.NO.	CSWDM3537-5										
SPEC.	35S630W038G3										
HP	.5										
VOLTS	575										
AMP	.65										
RPM	3450										
FRAME	56C		HZ	60				PH	3		
SER.F.	1.00		CODE	L	DES	B		CLASS	F		
NEMA-NOM-EFF	70		PF	76							
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	TENV		SN								

AC Induction Motor Performance Data

Record # 57842

Typical performance - not guaranteed values

Winding: 35WGW038-R010			Type: 3512M		Enclosure: TENV		
Nameplate Data			575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		.5	Full Load Torque		0.752 LB-FT		
Volts		575	Start Configuration		direct on line		
Full Load Amps		.65	Breakdown Torque		3.06 LB-FT		
R.P.M.		3450	Pull-up Torque		2.14 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		2.43 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		4.57 A
Service Factor (S.F.)			1	No-load Current		0.425 A	
NEMA Nom. Eff.		70	Power Factor	76	Line-line Res. @ 25°C		51.3 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		63°C	
				Locked-rotor Power Factor		65.9	
				Rotor inertia		0.0332 LB-FT2	

Load Characteristics 575 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	47	63	73	79	83	86
Efficiency	43.9	59.7	66.9	70.5	72.1	72.4
Speed	3557	3529	3501	3470	3437	3400
Line amperes	0.455	0.507	0.578	0.67	0.772	0.883

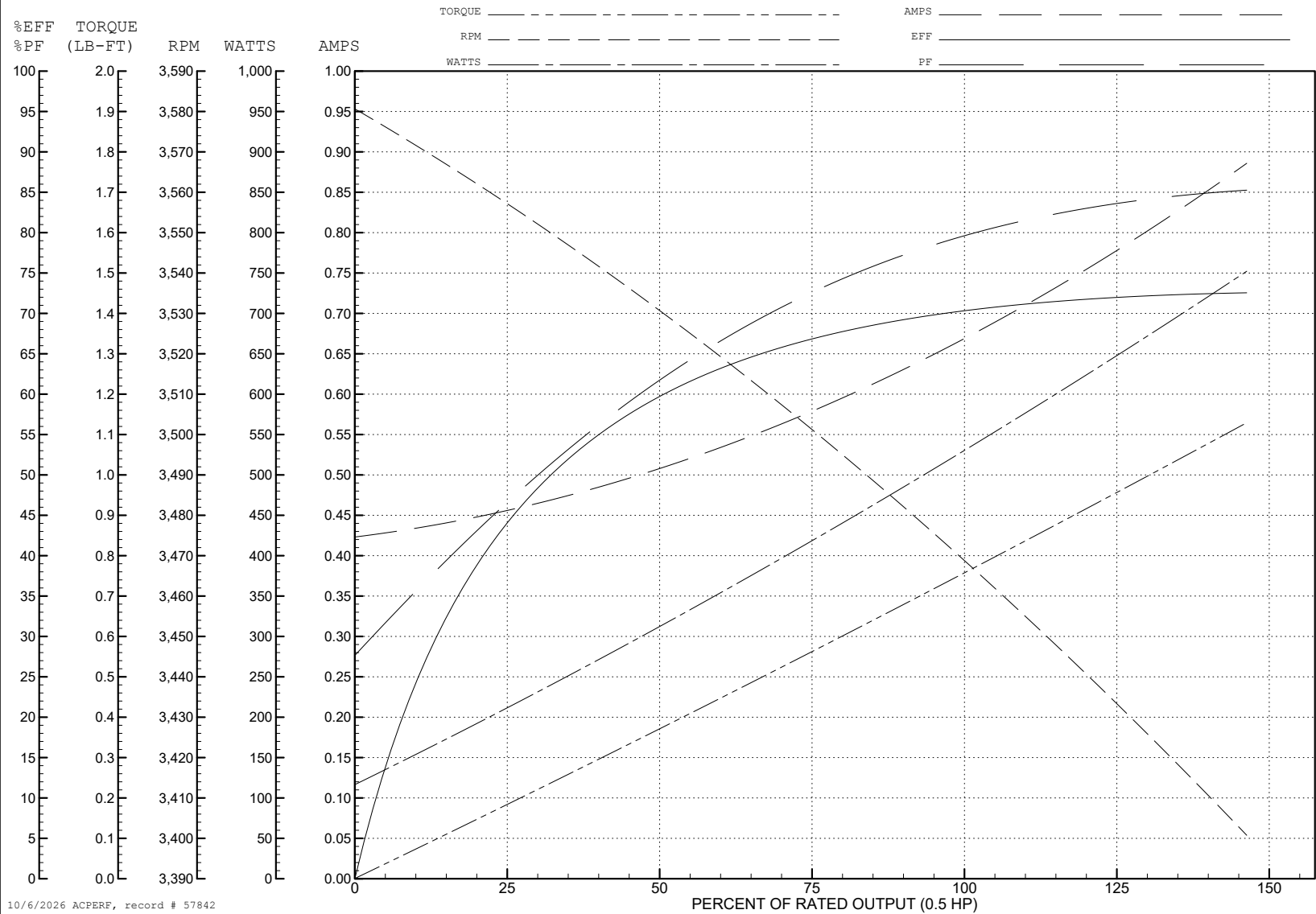
ABB Motors and Mechanical Inc.

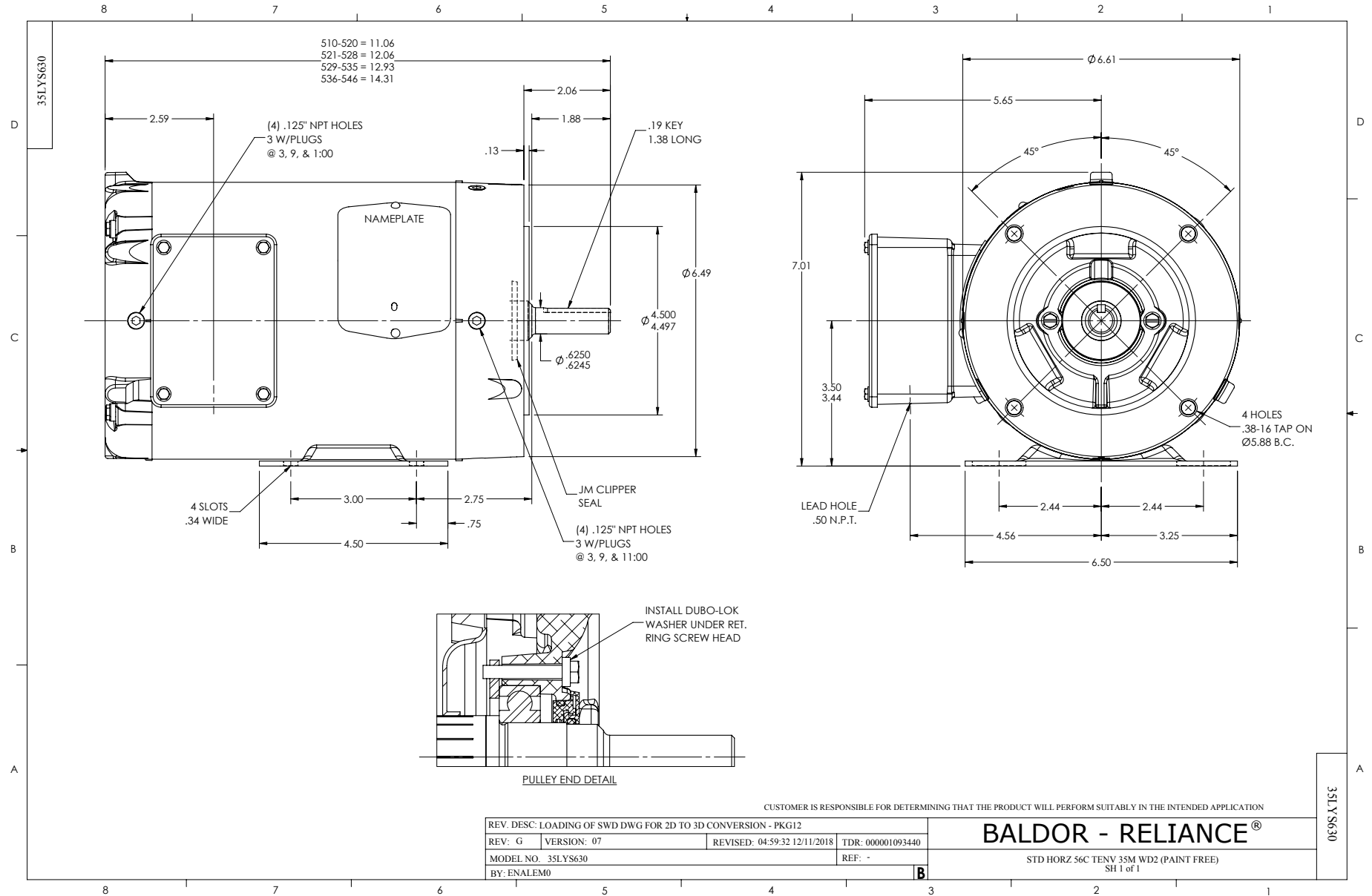
WINDING # 35WGW038

Typical performance - not guaranteed values.

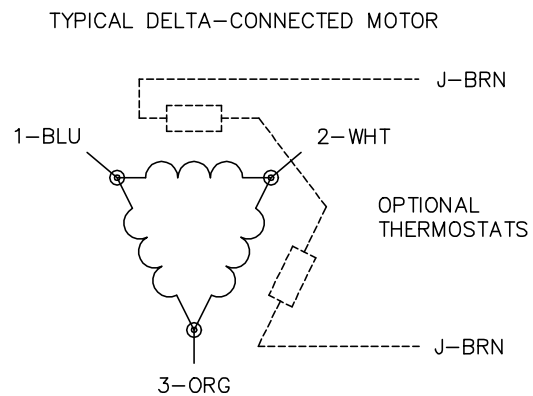
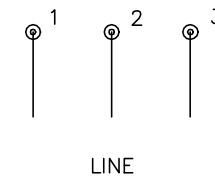
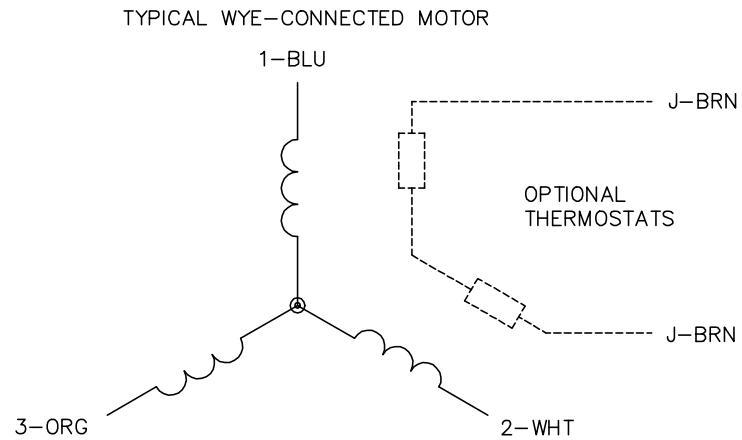
0.5 HP 3 PH 60 HZ 3450 RPM 575 V 3512M

TORQUES (LB-FT) : PO=3.06 PU=2.14 LR=2.43 LRA=4.57





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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