

ABB BALDOR RELIANCE III

Customer information packet

VEBNM3546-D

1/.75KWHP, 1770 1/MINRPM, 3PH, 60HZ, 56C, 352

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	CE CURUSEEV NEMA PREMIUM UKCA WEEE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.340 A @ 230.0 V 3.300 A @ 208.0 V 1.670 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	G
Type	AC
Mech. spec.	35X058
Base	
Status	PRD/A
Elec. spec.	35WGZ818
Layout	35LYX058
Eff. date	01-12-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-10-2022

Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F3
Number of Poles	4
Overall Length	15.96 IN
Power Factor	66
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP2934L									
CAT.NO.	VEBNM3546-D								
SPEC.	35X058Z818G1								
HP	1/.75KW								
VOLTS	230/460								
AMP	3.34/1.67								
R.P.M. (1/MIN)	1770								
FRAME	56C		HZ	60		PH	3		
SER.F.	1.15	CODE	M	DES	B	CL	F		
NEMA-NOM-EFF	85.5	PF	66						
RATING	40C AMB-CONT								
CC	010A								
DE	6205	ODE	6203						
ENCL	TENV	SN							
	IP44 IC410 22KG								

AC Induction Motor Performance Data

Record # 89784

Typical performance - not guaranteed values

Winding: 35WGZ818-R002			Type: 3522M		Enclosure: TENV		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		1	Full Load Torque		2.99 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		3.34/1.67	Breakdown Torque		16.6 LB-FT		
R.P.M.		1770	Pull-up Torque		7.42 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		10.32 LB-FT	
NEMA Design Code		B	KVA Code	M	Starting Current		16.1 A
Service Factor (S.F.)		1.15	No-load Current		1.23 A		
NEMA Nom. Eff.		85.5	Power Factor	66	Line-line Res. @ 25°C		14.4 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		63°C
S.F. Amps		3.5/1.75	Temp. Rise @ S.F. Load		71°C		
			Locked-rotor Power Factor		60.4724		
			Rotor inertia		0.159 lb-ft²		

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	43	56	66	73	78	72
Efficiency	70.8	81.2	84.5	85.9	85.8	85.2	85.5
Speed	1793	1786	1781	1773	1766	1758	1768
Line amperes	1.25	1.34	1.49	1.67	1.87	2.12	1.75

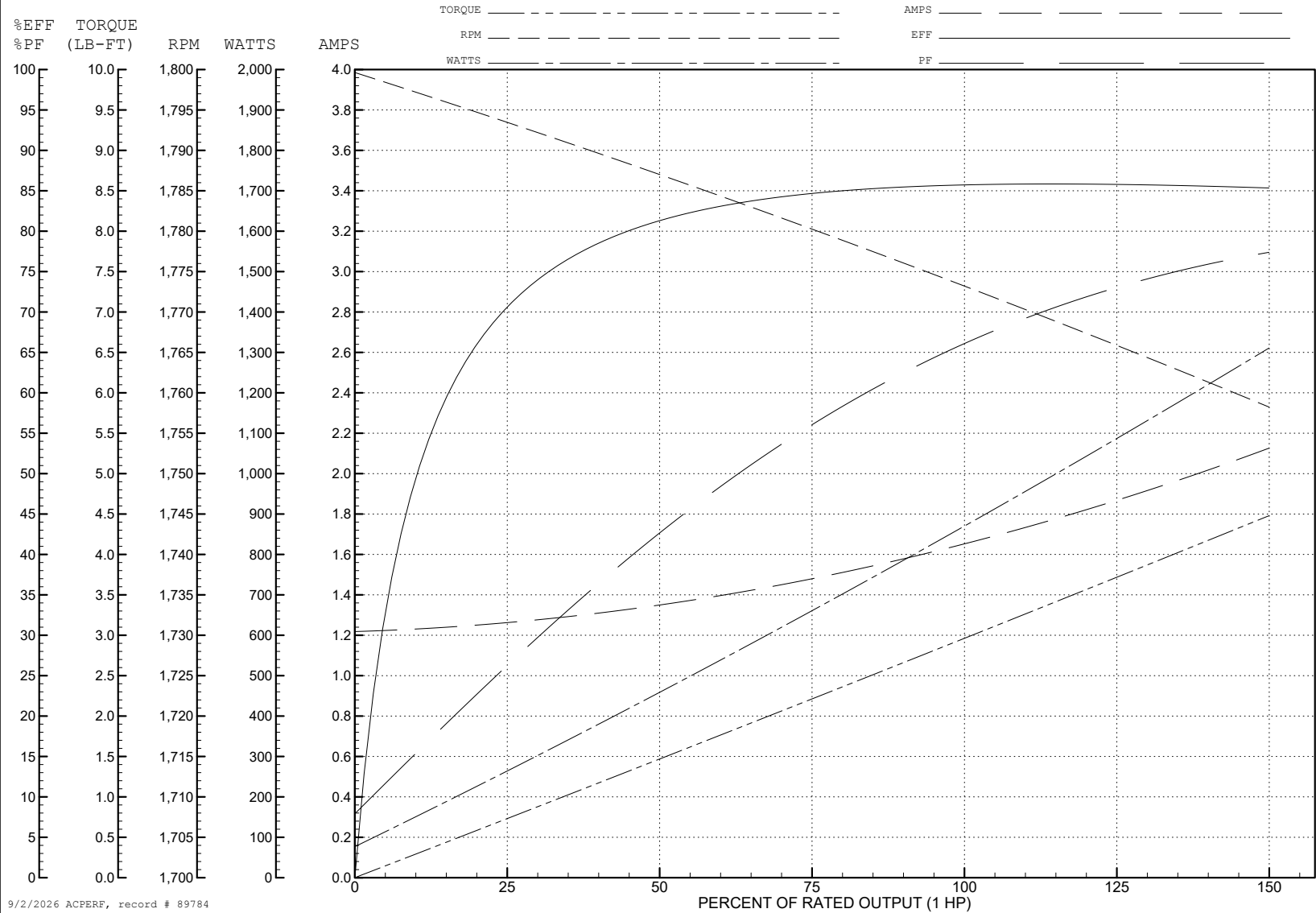
ABB Motors and Mechanical Inc.

WINDING # 35WGZ818

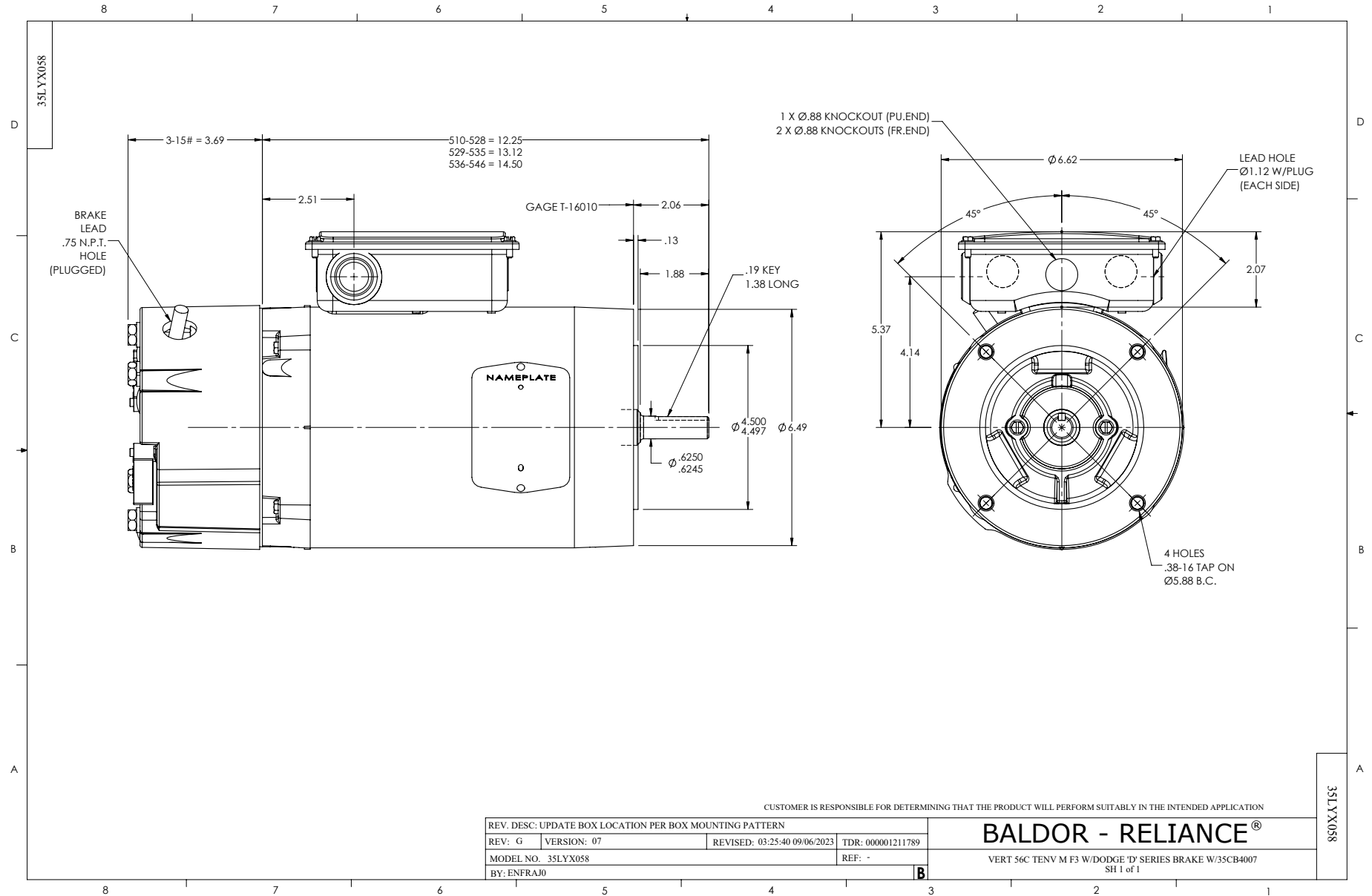
Typical performance - not guaranteed values.

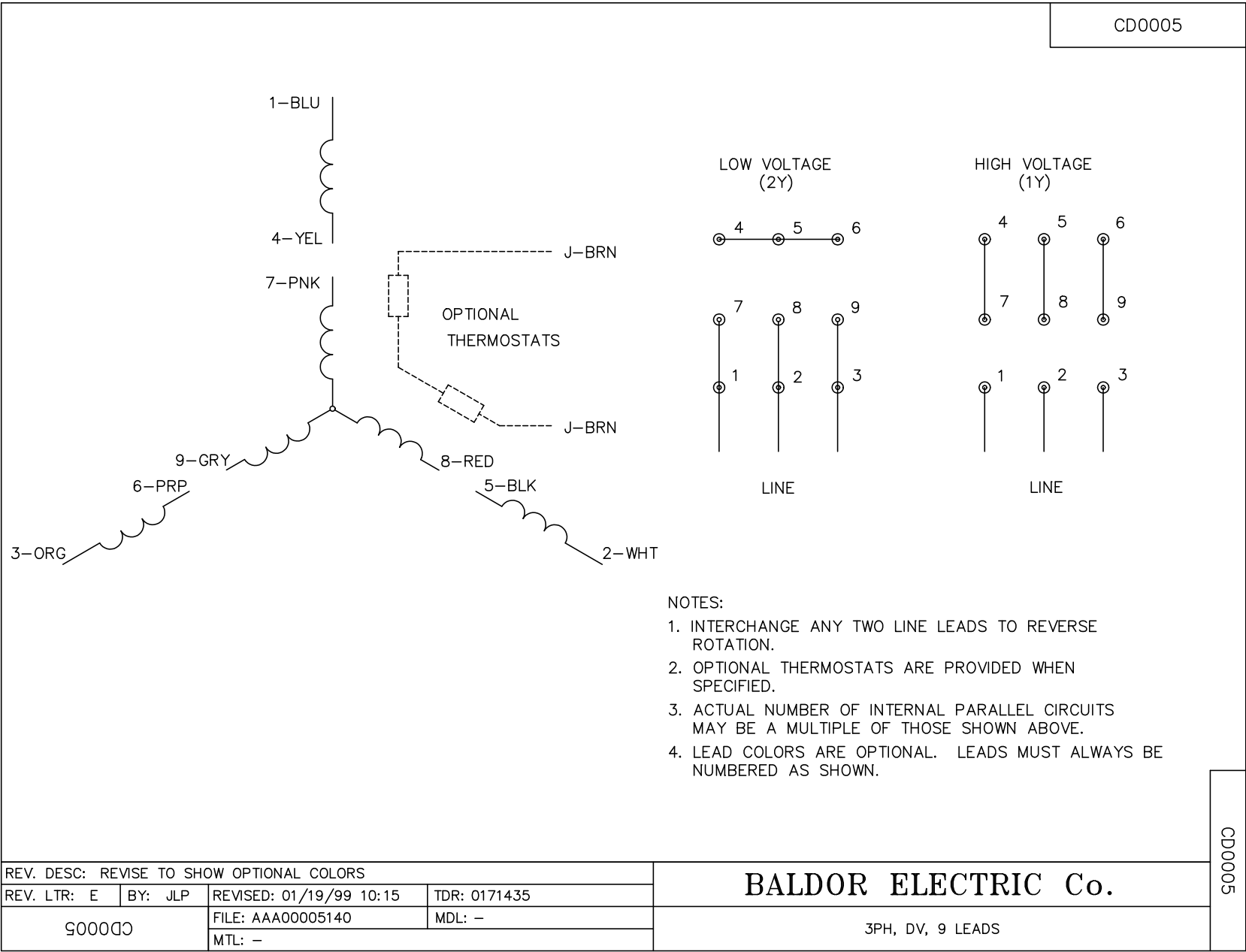
1 HP 3 PH 60 HZ 1770 RPM 460 V 3522M

TORQUES (LB-FT): PO=16.6 PU=7.42 LR=10.32 LRA=16.1



9/2/2026 ACPERF, record # 89784





CD2120

WIRING CONNECTIONS (1 PHASE VAC)

	POWER LINE A	POWER LINE B	CAP TOGETHER	CAP ALONE
AC LOW VOLT.	B1	B2	B3 & B5	B4
AC HIGH VOLT.	B1 & B5	B2	---	B3 CAP ALONE B4 CAP ALONE
DC VOLT.	B1	B2	B3 & B5	B4
				B1 WHITE B2 BLACK B3 GRAY B4 BLUE B5 RED

CD2120

REV. DESC: NEW		
REV. LTR: -	VERSION: 00	TDR: 000000741785
FILE: \CKA\00037\282	REVISED: 12: 28: 11 04/12/2012	
MTL: -	BY: CKRONSO	

BALDOR • DODGE • RELIANCE III
D-SERIES MOTOR BRAKE 5LD AC\DC
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