ABB BALDOR RELIANCE

Customer information packet

CEDM3550

1.5HP, 3500RPM, 3PH, 60HZ, 56C, 3520M, TEFC, F1
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
10/5/2026 10:19:38 PM

Specifications

Enclosure	TEFC
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
	CSA EEV
	NEMA PREMIUM
	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
Constant Torque Speed Range	6
Current @ Voltage	4.000 A @ 208.0 V
	3.800 A @ 230.0 V
	1.900 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	84.0 %
Electrically Isolated Bearing	Not Electrically Isolated

Part Detail

Revision	M
Type	AC
Mech. spec.	35E4315
Base	
Status	PRD/A
Elec. spec.	35WGM760
Layout	35LYE4315
Eff. date	01-06-2022
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	05-10-2016

Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.9 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3520M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.23 IN
Power Factor	85
Product Family	Dirty Duty Plus
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3500 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

NP3504								
CAT NO	CEDM3550							
SPEC.	35E4315M760G1			**ENCL**	TEFC			
FRAME	56C	**HP**	1.5					
VOLTS	230/460							
FLA	3.8/1.9			**I.P.**	56			
RPM	3500	**RPM MAX**	5400					
HZ	60	**PH**	3	**CLASS**	F			
SER.F.	1.15	**DES**	B	**CC**	010A			
NEMA-NOM-EFF	84							
RATING	40C AMB-CONT							
DE BRG	6205	**ODE BRG**	6203					
GREASE	POLYREX EM							
C HP FR	60	**C HP TO**	90					
CT HZ FROM	6	**CT HZ TO**	60	**VT HZ FROM**	6	**VT HZ TO**	60	
SER.NO								
	50C AT 1.0 SF							

Parts List

Part number	Description	Quantity
SA320527	SA 35E4315M760G1	1.000 ea
RA308255	RA 35E4315M760G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB1001A01E	SPL CONDUIT BOX, MACHINED (E-COAT)	1.000 ea
35GS1022A02	GASKET BOX .06 THK NEOP BLK HDN 30-40 DU	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
35EP1100F12EP5	FRONT TEFC 203 BRG W/ SEAL	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HW4606A01	JM CLIPPER/SEAL (WDE-0667-1064-BH49)	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP1300A113E	PUEP ENCL 205 BRG F/SEAL, (4).125 NPT	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 ea
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A01EP5	IEC FH NO GREASER	1.000 ea
10XN1032S08	10-32X1/2 HEX HEAD S STL	3.000 ea
35CB4516E	CONDUIT BOX LID, E-COAT	1.000 ea
36GS1002	GASKET, 1/16" NEOPRENE CONDUIT BOX LID	1.000 ea
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1164	LABEL,WARNING AND DRAIN	1.000 ea
MJ5001A23	P.D. GEORGE B-276 AIR DRY VARNISH	0.001 ga

LB1000	LABEL, DIRTY DUTY	1.000 ea
MG2000A02	RUST VETO-377-HF HOUGHTON	0.001 ga
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
WD1000D21	TRM,T&B #B71M,RING,18-14,.25,NON-INSL	9.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1025L01	WILKOFAST FD, 786.04, BLACK	0.017 ga
MG1500Y02	WILKOPON PRIMER YELLOW	0.017 ga
MG2000A17	RUST INHIBITOR PART # SRPO #20	0.001 ga
HA3100S08	THRUBOLT 7.375LG SS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3504	SS DIRTY DUTY PLUS,INV,CURUS EEV,NEMA PR	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

AC Induction Motor Performance Data
Record # 55729
Typical performance - not guaranteed values

Winding: 35WGM760-R060	**Type:** 3520M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		1.5	**Full Load Torque**	2.22 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		3.8/1.9	**Breakdown Torque**	9.49 LB-FT
R.P.M.		3500	**Pull-up Torque**	3.61 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	7.35 LB-FT
NEMA Design Code	B **KVA Code**	L	**Starting Current**	17.9 A
Service Factor (S.F.)		1.15	**No-load Current**	0.932 A
NEMA Nom. Eff.	84 **Power Factor**	85	**Line-line Res. @ 25ºC**	12.315 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	43°C
S.F. Amps			**Temp. Rise @ S.F. Load**	51°C
			Locked-rotor Power Factor	60
			Rotor inertia	0.0553 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	67	79	85	90	91	88
Efficiency	72.4	82	84.6	85	84.4	82.9	84.6
Speed	3574.8	3551.3	3525.8	3497.6	3466.3	3432.6	3479
Line amperes	1.03	1.25	1.55	1.91	2.31	2.79	2.15

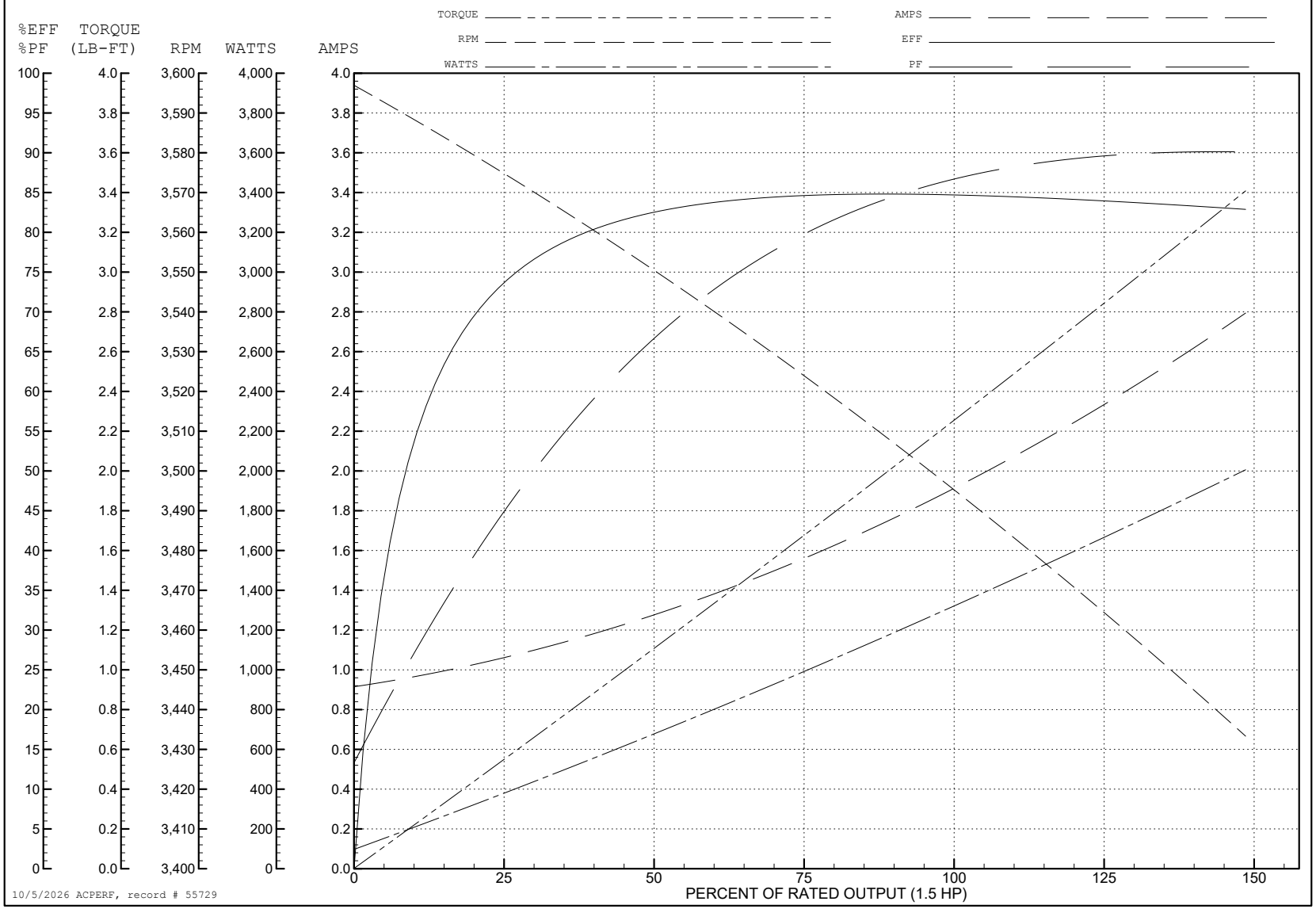
ABB Motors and Mechanical Inc.

WINDING # 35WGM760

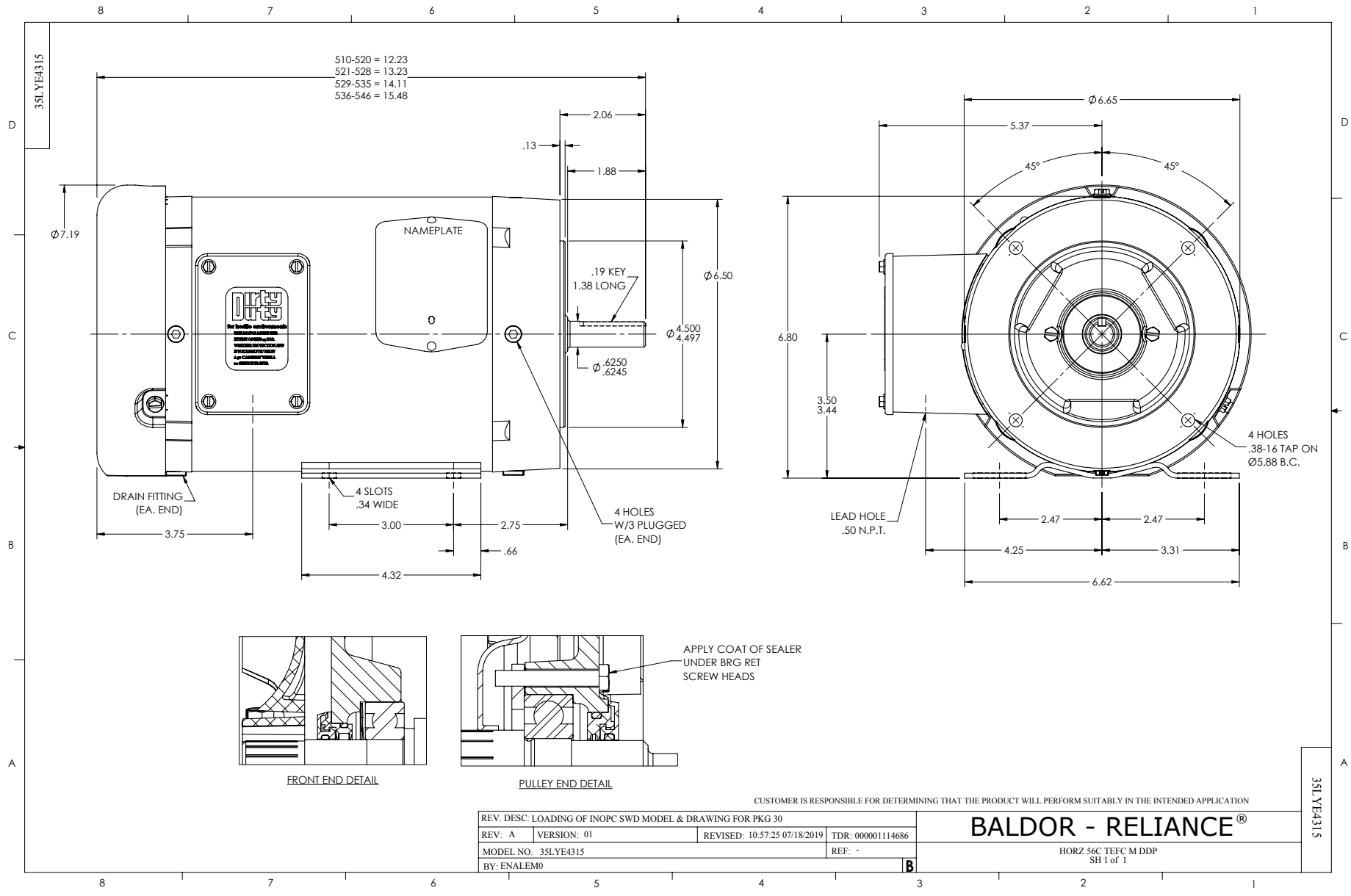
1.5 HP 3 PH 60 HZ 3500 RPM 460 V 3520M

Typical performance - not guaranteed values.

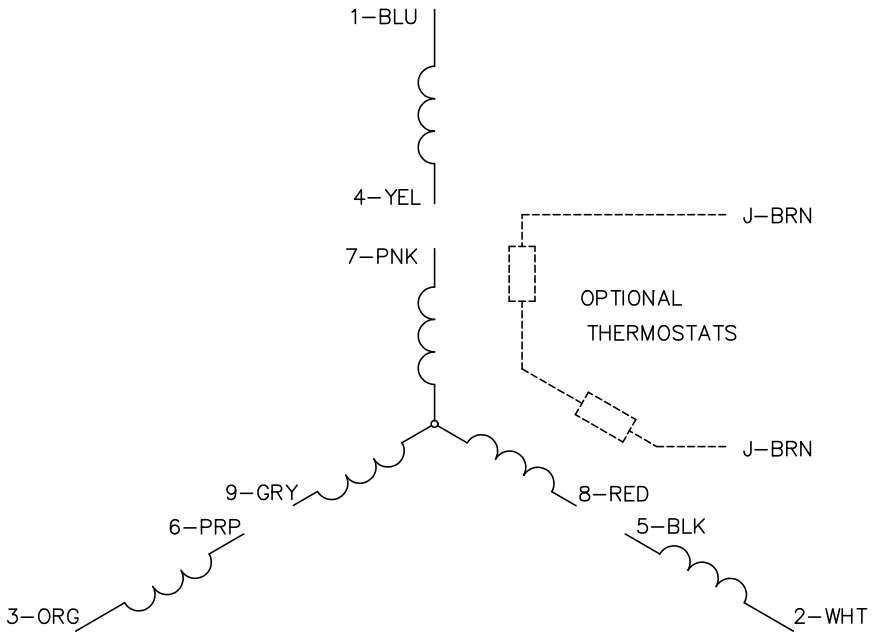
TORQUES(LB-FT): PO=9.49 PU=3.61 LR=7.35 LRA=17.9

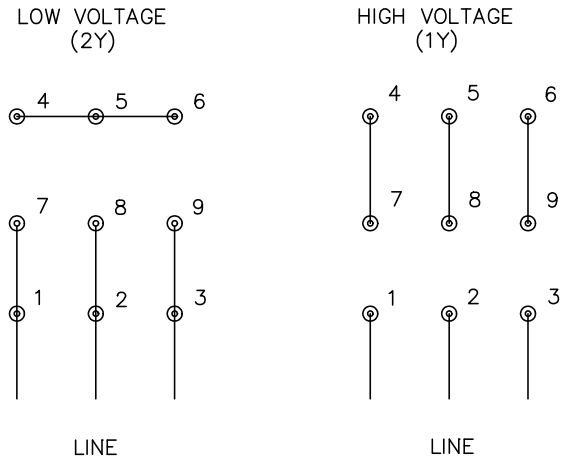


10/5/2026 ACPERF, record # 55729


35LYE4315
510-520 = 12.23
521-528 = 13.23
529-535 = 14.11
536-546 = 15.48
2.06
.13
1.88
Ø7.19
NAMEPLATE
.19 KEY
1.38 LONG
Ø6.50
Ø 4.500
4.497
Ø .6250
.6245
DRAIN FITTING
(EA. END)
4 SLOTS
.34 WIDE
3.00
2.75
.66
4.32
3.75
4 HOLES
W/3 PLUGGED
(EA. END)
Ø6.65
5.37
45°
45°
6.80
3.50
3.44
4 HOLES
.38-16 TAP ON
Ø5.88 B.C.
LEAD HOLE
.50 N.P.T.
2.47
2.47
4.25
3.31
6.62
APPLY COAT OF SEALER
UNDER BRG RET
SCREW HEADS
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF INOPC SWD MODEL & DRAWING FOR PKG 30
REV: A
VERSION: 01
REVISED: 10:57:25 07/18/2019
TDR: 000001114686
MODEL NO. 35LYE4315
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 56C TEFC M DDP
SH 1 of 1
35LYE4315

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS