ABB BALDOR RELIANCE

Customer information packet

VAOM3560

.5HP, 865RPM, 3PH, 60HZ, 56C, 3522M, TEAO, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	900 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
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	2.400 A @ 230.0 V
	2.200 A @ 208.0 V
	1.200 A @ 460.0 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

Part Detail

Revision	E
Type	AC
Mech. spec.	35E2256
Base	
Status	PRD/A
Elec. spec.	35WGG341
Layout	35LYE2256
Eff. date	01-12-2026
CD Diagram	CD0005
Poles	08
Leads	9#18
Proprietary	False
Created date	02-23-2023

High Voltage Full Load Amps	1.2 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	3522M
Mounting Arrangement	F1
Number of Poles	8
Overall Length	12.68 IN
Power Factor	57
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	865 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

NP1256L									
CAT.NO.	VAOM3560								
SPEC.	35E2256G341G1								
HP	.5								
VOLTS	208-230/460								
AMP	2.2-2.4/1.2								
RPM	865								
FRAME	56C		**HZ**	60			**PH**	3	
SER.F.	1.00	**CODE**	K	**DES**	B	**CLASS**		B	
NEMA-NOM-EFF	70	**PF**	57						
RATING	40C AMB-CONT								
CC									
DE	6205		**ODE**	6203					
ENCL	TEAO	**SN**							

Parts List

Part number	Description	Quantity
SA414940	SA 35E2256G341G1	1.000 ea
RA406709	RA 35E2256G341G1	1.000 ea
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 ea
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 ea
51XT1032A08	10-32X7/16 TY23 HXHD SLTD	2.000 ea
35EP3102B59	FREP ENCL, .50 NPT LEAD HOLE, MACH'D SW	1.000 ea
HW4003A01	T&B PLG-1-RD, 1/2 NPT PLUG ALUM	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3307F00	MASTER DE,205 BRG,.998SH,#26 DRN	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
35CB4500	TERMINAL BOX LID STAMPED	1.000 ea
35GS1002	GASKET,1/16 THICK LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	9.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 ea
SP5079A01	MODEL 35 3PH TERM PANEL CONN 9LD DUAL VO	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
PE-0000001	ZRTG PE ASSEMBLY	1.000 ea

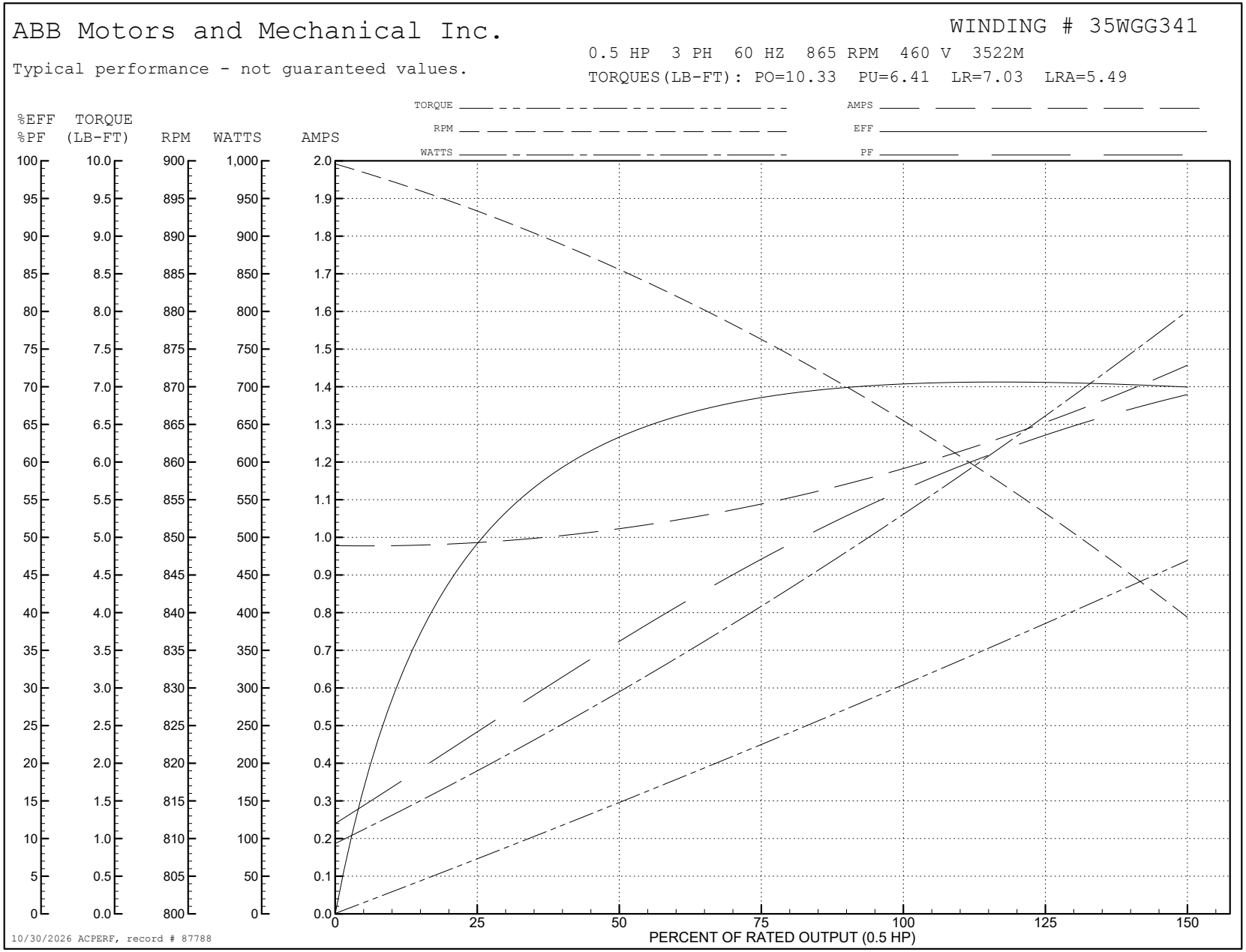
AC Induction Motor Performance Data
Record # 87788
Preliminary Data Sheet

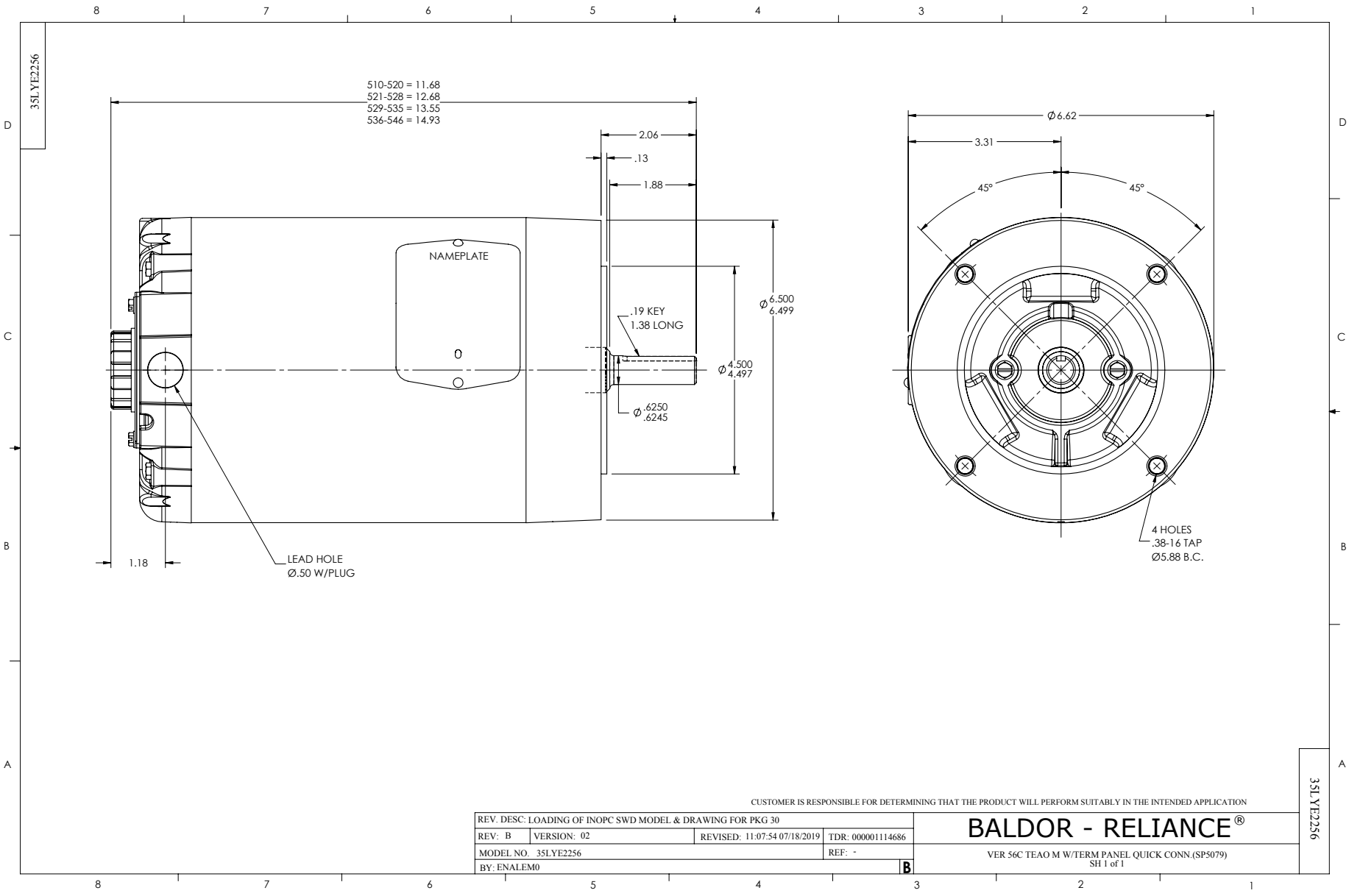
Winding: 35WGG341-R003	**Type:** 3522M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.5	**Full Load Torque**	3.08 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			2.2-2.4/1.2	**Breakdown Torque**	10.33 LB-FT
R.P.M.			865	**Pull-up Torque**	6.41 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	7.03 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	5.49 A
Service Factor (S.F.)			1	**No-load Current**	0.979 A
NEMA Nom. Eff.	70	**Power Factor**	57	**Line-line Res. @ 25ºC**	39.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	52°C
				Locked-rotor Power Factor	65
				Rotor inertia	0.159 lb-ft²

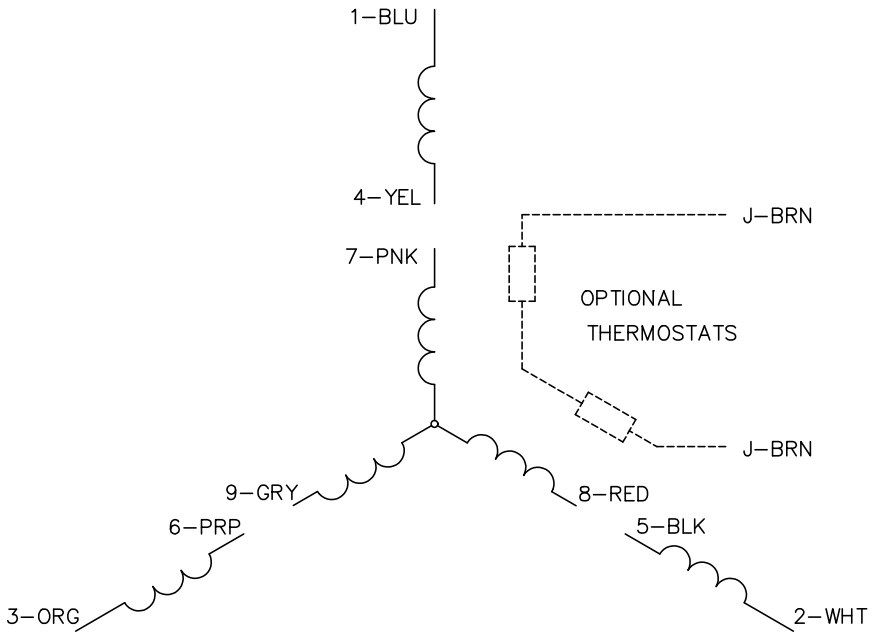
Load Characteristics 460 V, 60 Hz, 0.5 HP

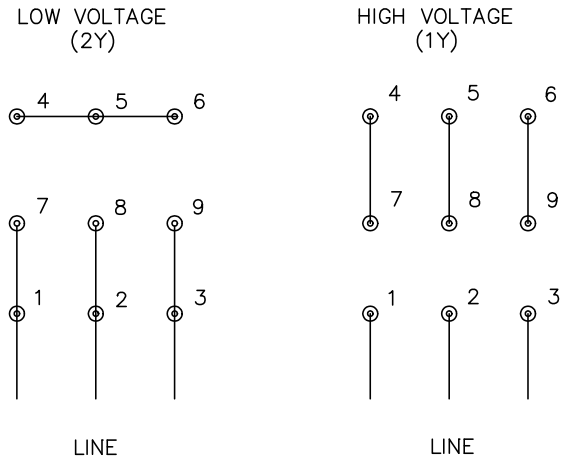
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	25	37	47	56	64	69
Efficiency	49.7	63	68.5	70.9	70.7	69.7
Speed	893	884	876	866	853	839
Line amperes	0.986	1.02	1.1	1.19	1.3	1.46


ABB Motors and Mechanical Inc.
WINDING # 35WGG341
Typical performance - not guaranteed values.
0.5 HP 3 PH 60 HZ 865 RPM 460 V 3522M
TORQUES(LB-FT): PO=10.33 PU=6.41 LR=7.03 LRA=5.49
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
10/30/2026 ACPERF, record # 87788


35LYE2256
510-520 = 11.68
521-528 = 12.68
529-535 = 13.55
536-546 = 14.93
2.06
.13
1.88
NAMEPLATE
.19 KEY
1.38 LONG
Ø 6.500
6.499
Ø 4.500
4.497
Ø .6250
.6245
1.18
LEAD HOLE
Ø.50 W/PLUG
Ø6.62
3.31
45°
45°
4 HOLES
.38-16 TAP
Ø5.88 B.C.
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: B
VERSION: 02
REVISED: 11:07:54 07/18/2019
TDR: 000001114686
MODEL NO. 35LYE2256
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VER 56C TEAO M W/TERM PANEL QUICK CONN.(SP5079)
SH 1 of 1
35LYE2256

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