ABB BALDOR RELIANCE

Customer information packet

EMVM3546C

0.75KW, 1770RPM, 3PH, 60HZ, D80C, 3520M, TEFC
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.
10/30/2026 2:56:12 AM

Specifications

Enclosure	TEFC
Frame	D80C
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	.750 KW @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	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	1.600 A @ 460.0 V
	3.200 A @ 208.0 V
	3.200 A @ 230.0 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
Frame Prefix	D
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	35M366
Base	
Status	PRD/A
Elec. spec.	35WGG004
Layout	35LYM366
Eff. date	01-05-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

High Voltage Full Load Amps	1.6 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	N
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	IEC
Motor Type	3520M
Mounting Arrangement	B14
Number of Poles	4
Overall Length	11.38 IN
Power Factor	69
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.748 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

NP3386L							
CAT.NO.	EMVM3546C						
SPEC.	35M366G004G1						
IEC FRAME	D80C	**KW**	0.75				
VOLTS	230/460						
AMP	3.2/1.6						
RPM	1770	**ENCL**	TEFC				
HZ	60	**PH**	3	**CL**	F		
SER.F.	1.15	**DES**	B	**CODE**	N		
NEMA-NOM-EFF	85.5	**I.P.**	54				
RATING	40C AMB-CONT						
CC	010A	**USABLE AT 208V**	N/A				
DE	6205	**ODE**	6203				
SER. #	SFA 3.4/1.7						

Parts List

Part number	Description	Quantity
SA409204	SA 35M366G004G1	1.000 ea
RA400749	RA 35M366G004G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3007	35 CB CASTING W/.88 DIA. LEAD HOLE	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122K00	MASTER ODE,203 BRG,.683SH,#26 DRN,FH MTG	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP1311A12	SPL PU EP IEC D80C FOR SEAL W/ M8X1.25 M	1.000 ea
HW4600H11	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.017 ga
35FH4005A32	IEC FH NO GRSR W/3 HOLES - PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2504E10	KEY, 6 MM X 1.000	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
HA3100A47	THRUBOLT 10-32 X 7.625	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3386L	ALUM SUPER-E IEC UL CSA-EEV CC	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 87097
Preliminary Data Sheet

Winding: 35WGG004-R011	**Type:** 3520M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (KW)			.75	**Full Load Torque**	2.99 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.2/1.6	**Breakdown Torque**	13.68 LB-FT
R.P.M.			1770	**Pull-up Torque**	7.85 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	9.01 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	14.13 A
Service Factor (S.F.)			1.15	**No-load Current**	1.08 A
NEMA Nom. Eff.	85.5	**Power Factor**	69	**Line-line Res. @ 25ºC**	16.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	24°C
S.F. Amps			3.4/1.7	**Temp. Rise @ S.F. Load**	28°C
				Locked-rotor Power Factor	61.5
				Rotor inertia	0.144 lb-ft²

Load Characteristics 460 V, 60 Hz, 0.75 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	48	60	69	76	79	73
Efficiency	72.1	81.7	84.6	85.7	85.5	84.7	85.6
Speed	1791	1784	1776	1768	1759	1750	1763
Line amperes	1.11	1.22	1.38	1.6	1.83	2.1	1.74

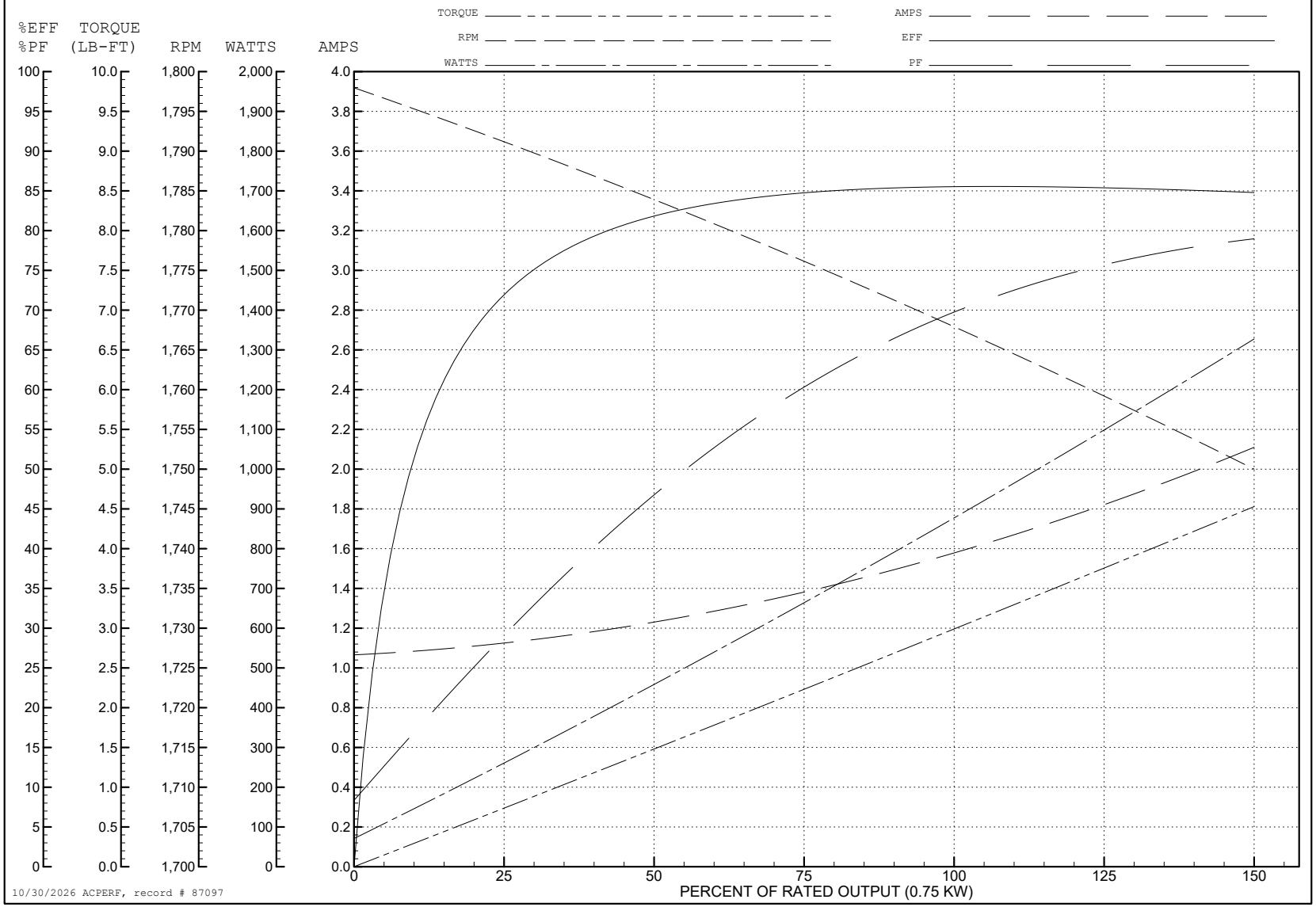
ABB Motors and Mechanical Inc.

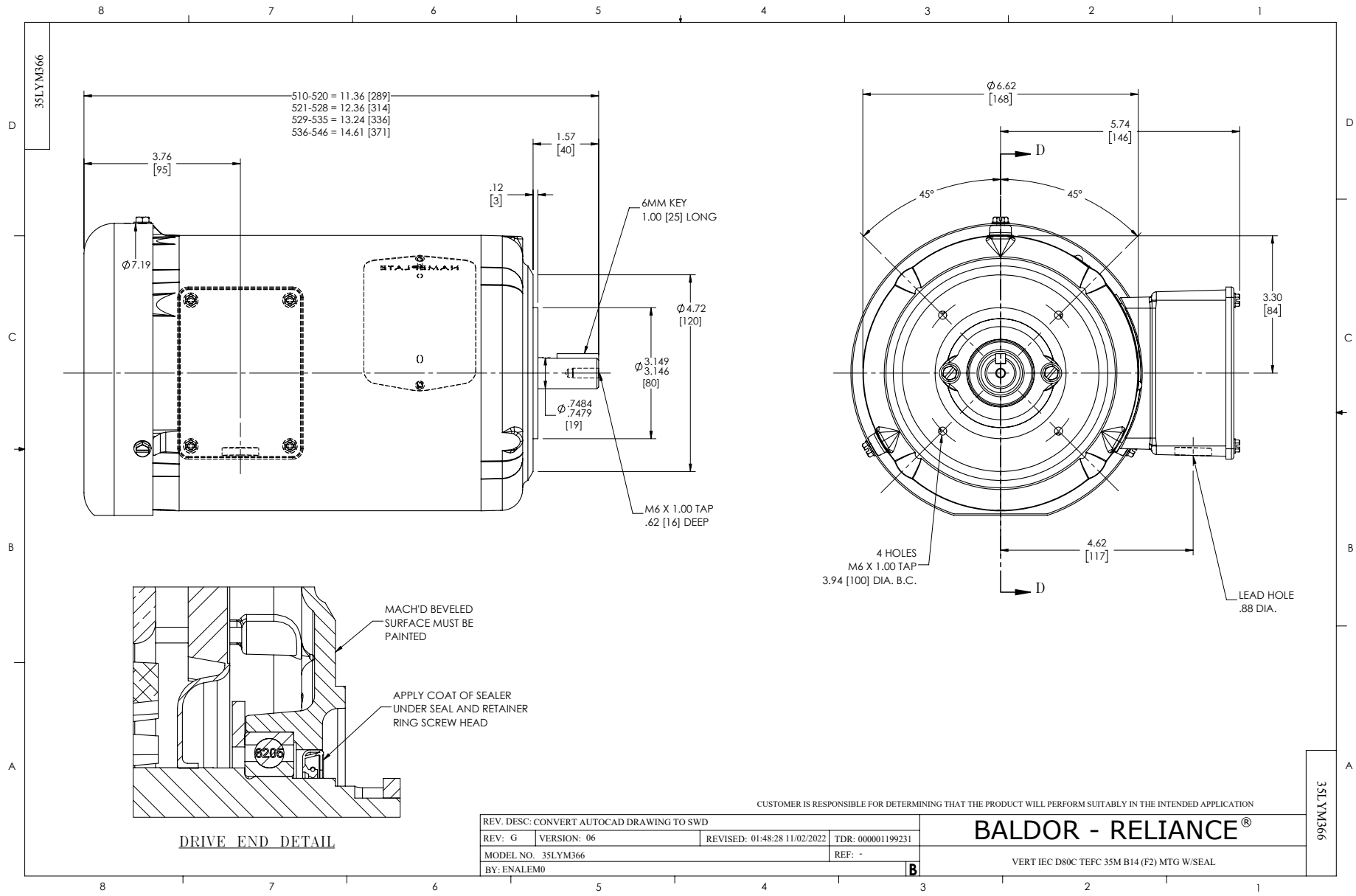
WINDING # 35WGG004

0.75 KW 3 PH 60 HZ 1770 RPM 460 V 3520M

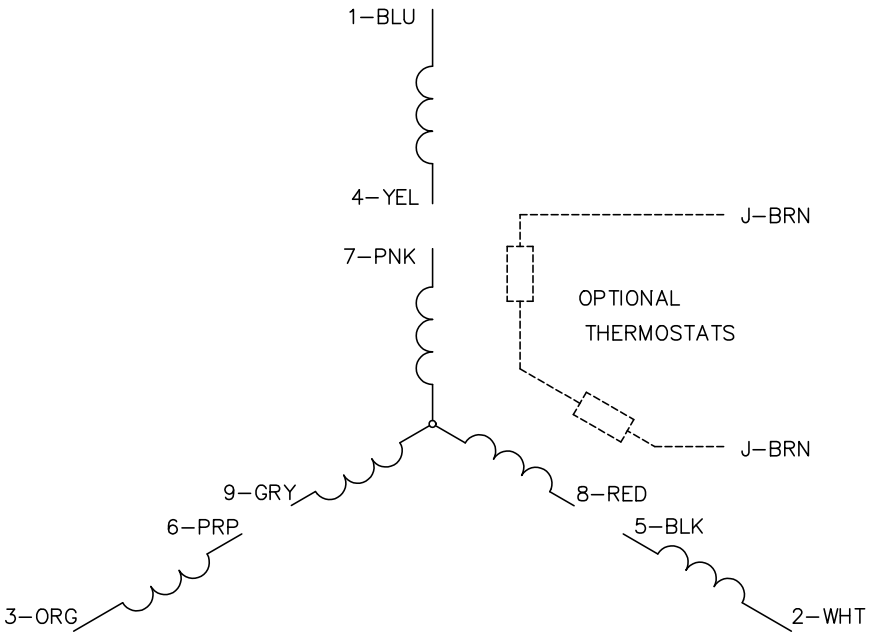
Typical performance - not guaranteed values.

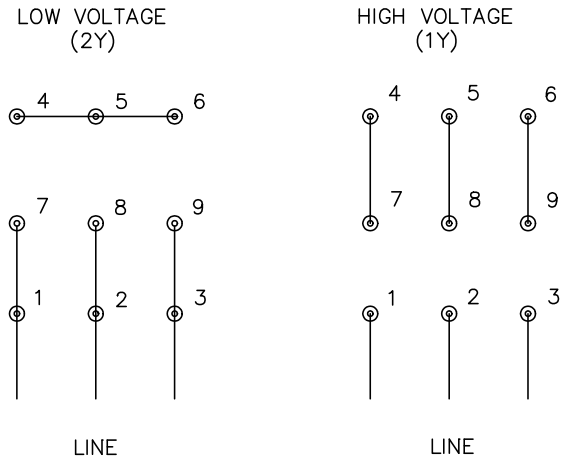
TORQUES(LB-FT): PO=13.68 PU=7.85 LR=9.01 LRA=14.13




35LYM366
510-520 = 11.36 [289]
521-528 = 12.36 [314]
529-535 = 13.24 [336]
536-546 = 14.61 [371]
3.76 [95]
1.57 [40]
.12 [3]
6MM KEY 1.00 [25] LONG
Ø7.19
Ø4.72 [120]
Ø3.149 3.146 [80]
Ø.7484 .7479 [19]
M6 X 1.00 TAP .62 [16] DEEP
Ø6.62 [168]
5.74 [146]
45°
45°
3.30 [84]
4 HOLES M6 X 1.00 TAP 3.94 [100] DIA. B.C.
4.62 [117]
LEAD HOLE .88 DIA.
MACH'D BEVELED SURFACE MUST BE PAINTED
APPLY COAT OF SEALER UNDER SEAL AND RETAINER RING SCREW HEAD
6205
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: G VERSION: 06 REVISED: 01:48:28 11/02/2022 TDR: 000001199231
MODEL NO. 35LYM366 REF: -
BY: ENALEM0 B
BALDOR - RELIANCE®
VERT IEC D80C TEFC 35M B14 (F2) MTG W/SEAL
35LYM366

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