

**BALDOR® • RELIANCE** 

**Product Information Packet**

**VEM3542-5**

**.75HP,1750RPM,3PH,60HZ,56C,3516M,TEFC,F1**

Part Detail							
Revision:	R	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGM218	CD Diagram:	CD0006	Mfg Plant:	
Mech. Spec:	35J302	Layout:	35LYJ302	Poles:	04	Created Date:	02-12-2010
Base:	N	Eff. Date:	12-20-2019	Leads:	3#18		

Specs			
Catalog Number:	VEM3542-5	IP Rating:	NONE
Enclosure:	TEFC	KVA Code:	M
Frame:	56C	Lifting Lugs:	No Lifting Lugs
Frame Material:	Steel	Locked Bearing Indicator:	Locked Bearing
Output @ Frequency:	.750 HP @ 60 HZ	Motor Lead Quantity/Wire Size:	3 @ 18 AWG
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Exit:	Ko Box
Voltage @ Frequency:	575.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3516M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	UR	Power Factor:	73
	CSA	Product Family:	General Purpose
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Ball
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	No Mounting	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	RoHS Status:	ROHS COMPLIANT
Current @ Voltage:	.900 A @ 575.0 V	Shaft Extension Location:	Pulley End
Design Code:	B	Shaft Ground Indicator:	No Shaft Grounding

<b>Drip Cover:</b>	No Drip Cover	<b>Shaft Rotation:</b>	Reversible
<b>Duty Rating:</b>	CONT	<b>Shaft Slinger Indicator:</b>	No Slinger
<b>Electrically Isolated Bearing:</b>	Not Electrically Isolated	<b>Speed Code:</b>	Single Speed
<b>Feedback Device:</b>	NO FEEDBACK	<b>Motor Standards:</b>	NEMA
<b>Front Face Code:</b>	Standard	<b>Starting Method:</b>	Direct on line
<b>Front Shaft Indicator:</b>	None	<b>Thermal Device - Bearing:</b>	None
<b>Heater Indicator:</b>	No Heater	<b>Thermal Device - Winding:</b>	None
<b>Insulation Class:</b>	F	<b>Vibration Sensor Indicator:</b>	No Vibration Sensor
<b>Inverter Code:</b>	Inverter Ready	<b>Winding Thermal 1:</b>	None
		<b>Winding Thermal 2:</b>	None

<b>Nameplate NP2116L</b>	
<b>CAT.NO.</b>	VEM3542-5
<b>SPEC.</b>	35J302M218G1
<b>HP</b>	.75
<b>VOLTS</b>	575
<b>AMP</b>	.9
<b>RPM</b>	1750
<b>FRAME</b>	56C
<b>HZ</b>	60
<b>PH</b>	3
<b>SER.F.</b>	1.25
<b>CODE</b>	M
<b>DES</b>	B
<b>CL</b>	F
<b>NEMA-NOM-EFF</b>	84
<b>PF</b>	73
<b>RATING</b>	40C AMB-CONT
<b>CC</b>	USABLE AT 208V
<b>DE</b>	6205
<b>ODE</b>	6203
<b>ENCL</b>	TEFC
<b>SN</b>	
	SFA 1.1

Parts List		
Part Number	Description	Quantity
SA190825	SA 35J302M218G1	1.000 EA
RA178490	RA 35J302M218G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	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
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
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A32SP	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
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, MOBIL POLYREX EM - 124047	0.050 LB
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
NP2116L	ALUM SUPER-E UL CSA CC	1.000 EA

<b>Parts List (continued)</b>		
<b>Part Number</b>	<b>Description</b>	<b>Quantity</b>
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
LB1417	LABEL CARTON 6X4 PERFORATED BLANK ROLLS	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA

**AC Induction Motor Performance Data**

Record # 28554

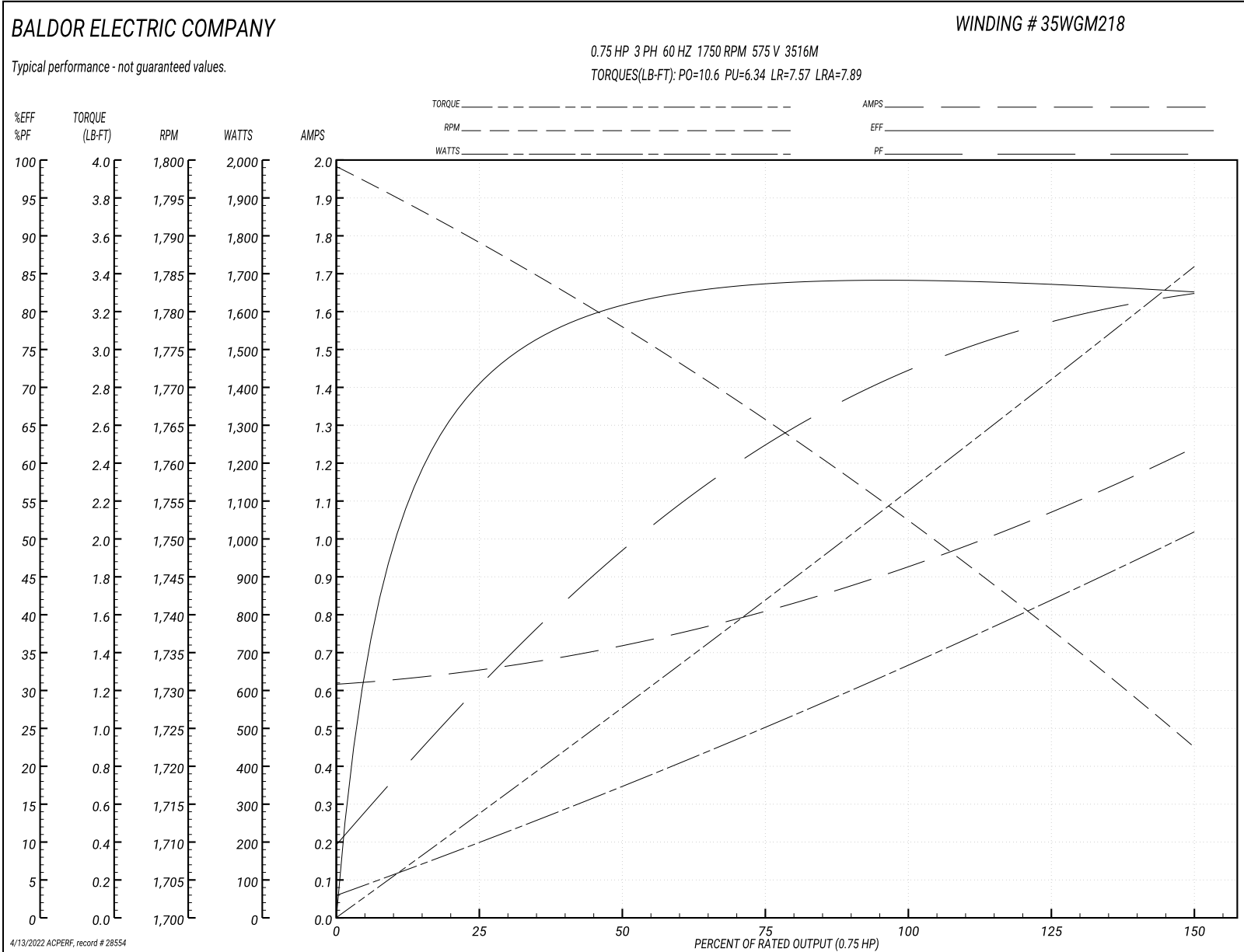
Typical performance - not guaranteed values

<b>Winding: 35WGM218-R001</b>		<b>Type: 3516M</b>		<b>Enclosure: TEFC</b>	
<b>Nameplate Data</b>			<b>575 V, 60 Hz: Single Voltage Motor</b>		
<b>Rated Output (HP)</b>	.75	<b>Full Load Torque</b>	2.22 LB-FT		
<b>Volts</b>	575	<b>Start Configuration</b>	direct on line		
<b>Full Load Amps</b>	.9	<b>Breakdown Torque</b>	10.6 LB-FT		
<b>R.P.M.</b>	1750	<b>Pull-up Torque</b>	6.34 LB-FT		
<b>Hz</b>	60 <b>Phase</b>	3	<b>Locked-rotor Torque</b>	7.57 LB-FT	
<b>NEMA Design Code</b>	<b>B KVA Code</b>	M	<b>Starting Current</b>	7.89 A	
<b>Service Factor (S.F.)</b>	1.25	<b>No-load Current</b>	0.621 A		
<b>NEMA Nom. Eff.</b>	84 <b>Power Factor</b>	73	<b>Line-line Res. @ 25°C</b>	34.7 Ω	
<b>Rating - Duty</b>	40C AMB-CONT	<b>Temp. Rise @ Rated Load</b>	30°C		
<b>S.F. Amps</b>	1.1	<b>Temp. Rise @ S.F. Load</b>	38°C		
		<b>Locked-rotor Power Factor</b>	65.1		
		<b>Rotor inertia</b>	0.0946 LB-FT <sup>2</sup>		

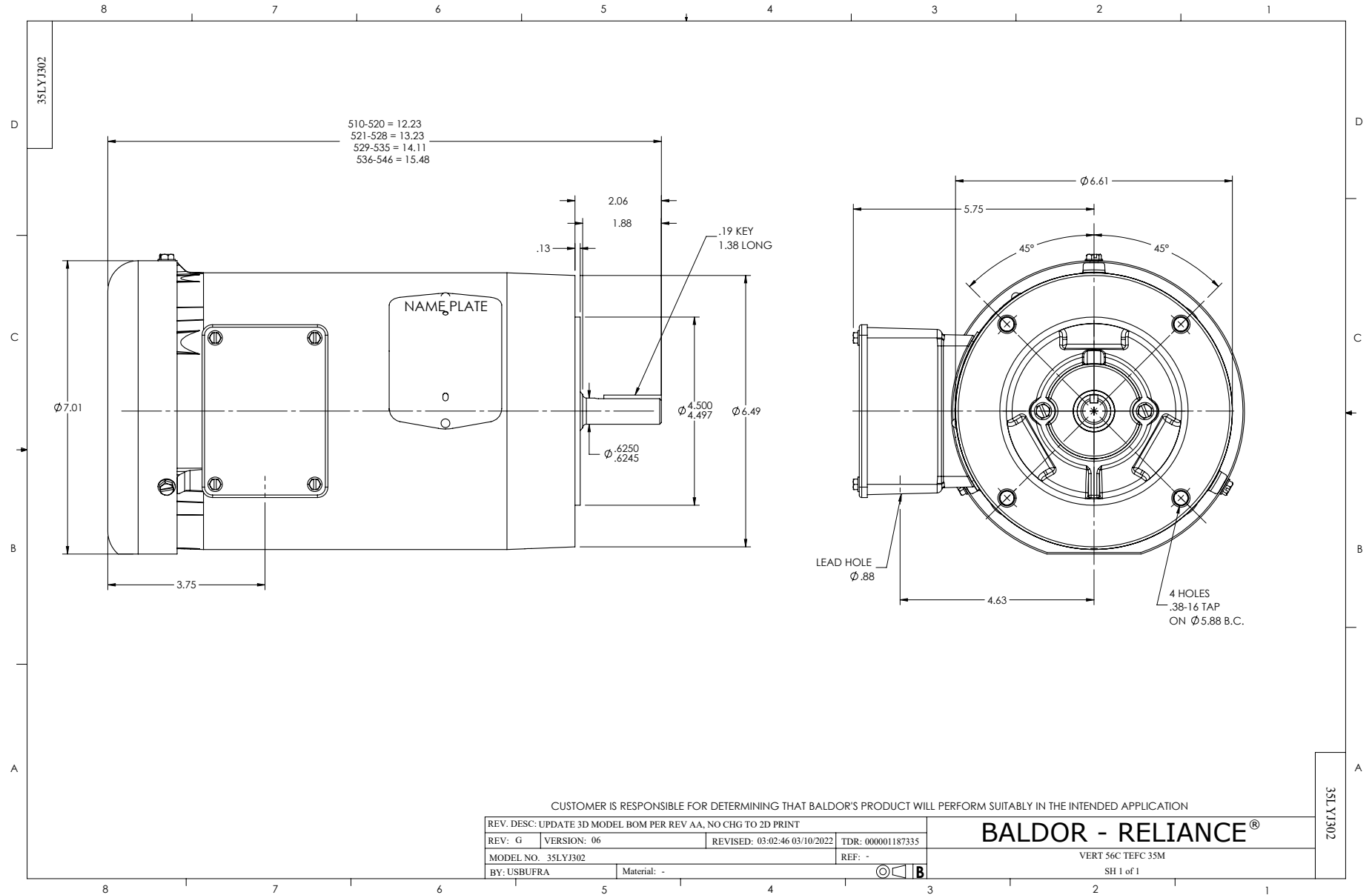
**Load Characteristics 575 V, 60 Hz, 0.75 HP**

<b>% of Rated Load</b>	<b>25</b>	<b>50</b>	<b>75</b>	<b>100</b>	<b>125</b>	<b>150</b>	<b>S.F.</b>
<b>Power Factor</b>	31	48	62	71	78	83	80
<b>Efficiency</b>	68.5	80	83.5	84.4	84.3	82.2	84.2
<b>Speed</b>	1790	1778	1766	1753	1739	1722	1738
<b>Line amperes</b>	0.647	0.711	0.808	0.924	1.07	1.24	1.05

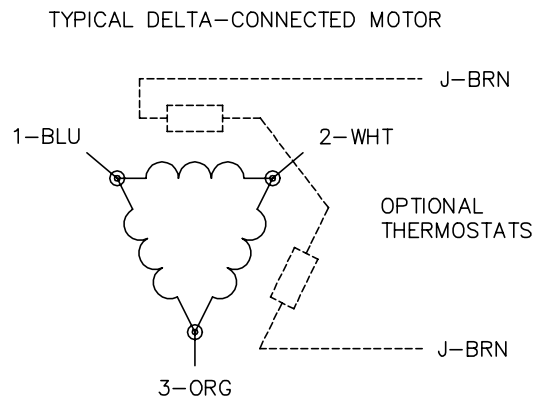
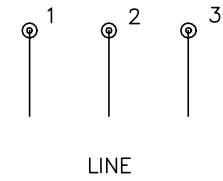
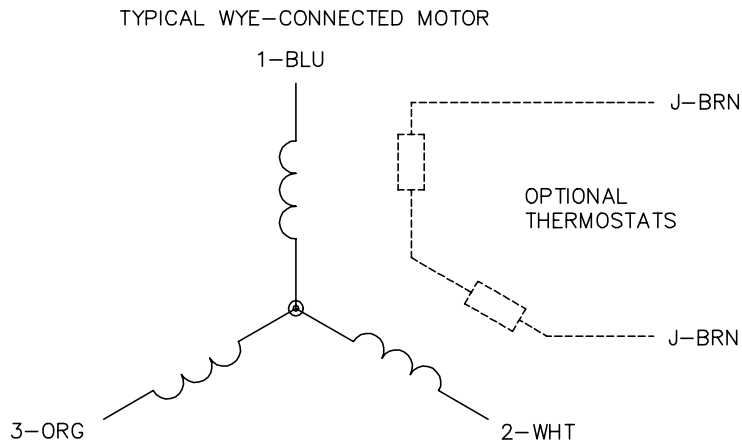
Performance Graph at 575V, 60Hz, 0.75HP Typical performance - Not guaranteed values







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

SH 1 of 1