



Customer information packet

ECS101M0K2P2ED4

2.2KW, 1500RPM, 3PH, 50HZ, D112D, 3624B, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	D112D
Frame Material	Steel
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Brushless Wound Field PM Rotor
Output @ Frequency	2.200 KW @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ 380.0 V @ 50 HZ
Agency Approvals	CE WEEE UKCA CULUS
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
Constant Torque Speed Range	5
Current @ Voltage	4.300 A @ 380.0 V 8.600 A @ 190.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	S1
Efficiency @ 100% Load	91.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D

Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	36WGA0019
Layout	36LY-000-293
Eff. date	06-16-2025
CD Diagram	CD0005A25
Poles	04
Leads	9#14
Proprietary	False
Created date	01-11-2023

Heater Indicator	No Heater
High Voltage Full Load Amps	4.3 a
Insulation Class	F
Inverter Code	Inverter Duty
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Terminal Block
Motor Standards	IEC
Motor Type	3624B
Mounting Arrangement	B5
Number of Poles	4
Overall Length	17.91 IN
Power Factor	97
Product Family	General Purpose
Pulley Face Code	D-Flange
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.103 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1500 rpm
Speed Code	Single Speed
Starting Method	INVERTER SPECIAL
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

BALDOR • RELIANCE

EC-Titanium™

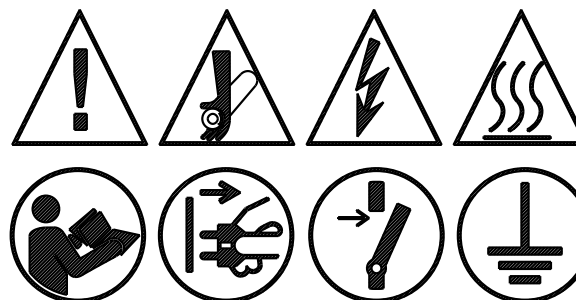
CAT. NO.	ECS101M0K2P2ED4							IC	411
SPEC.	36-0000-3645							YR	***
FRAME	D112D			IP	55		WT.	38	kg
KW	2.2		HZ	50		PH	3	DUTY	S1
INSUL CL	F	CLASS RISE			B	AMB-°C		40	
EFF. CL	IE5		EFF.	91.5			COS Φ	97	
VOLTS	190/380				A	8.6/4.3			
RPM (1/MIN)	1500				RPM (1/MIN) MAX			3000	
BEMF (V)	88/176				Rs (Ω)		0.97/3.88		
Ld (mH)	14.4/57.7			Lq (mH)		54.4/217.7			
INV TYP	VPWM	CHP	50	TO 100			HZ		
	CT	5	TO 50		HZ	VT	1	TO 50 HZ	
MATCHED INV	ACS380-04XX-12A2-1 / 07A2-4								
BEARING	DE	6206				ODE	6205		
SERIAL#	***								



ELECTRIC MOTOR FOR INDUSTRIAL USE

ABB MOTORS AND MECHANICAL INC.
5711 R.S. BOREHAM JR. ST., FORT SMITH, AR. MFG IN U.S.A.

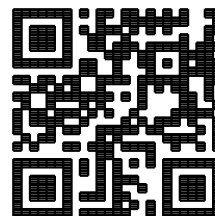
FERRITE ASSISTED
SYNCHRONOUS RELUCTANCE MOTOR
FOR INVERTER USE ONLY



PERMANENT MAGNET MOTOR. WHEN SHAFT IS
ROTATED, VOLTAGE WILL BE GENERATED AT
THE MOTOR TERMINALS.

MOTEUR À AIMANT PERMANENT. LORSQUE
L'ARBRE TOURNE, UNE TENSION SERA
GÉNÉRÉE AUX BORNES DU MOTEUR.

BALDOR-RELIANCE
SHAFT GROUNDING BRUSH INSTALLED



EN/IEC 60034
-1;-5
IEC TS 60034
-30-2

LISTED
E46145

Volts	190/380	Max RPM	3000	Conn Diag.	CD0005A25	Leads	9
Amps	8.6/4.3	Max Amps		Cs Diagram	CS0576	BEMF	0
KW	2.2	VFD#	ACS380-040S-05			LD	0
RPM	1500	S.F.	1.00			LQ	0
Phase/Hz	3/50	Rating	40C AMB-S1			Rs	3.7855 Meas. L-L

60034-2-3 Motor Performance at Standardized Operating Points

	RPM	% Speed	LB-FT	% Torque	KW	Efficiency	Loss (% FL)	Watts Loss (W)
P1	1350	90%	10.3	100%	2.7	91.4	8.56%	188
P2	750	50%	10.3	100%	1.5	87.5	7.16%	157
P3	375	25%	10.3	100%	0.7	80.1	6.23%	137
P4	1350	90%	5.2	50%	1.3	91.8	4.06%	89
P5	750	50%	5.2	50%	0.7	89.1	3.07%	68
P6	750	50%	2.6	25%	0.4	88.8	1.58%	35
P7	375	25%	2.6	25%	0.2	85.0	1.11%	24

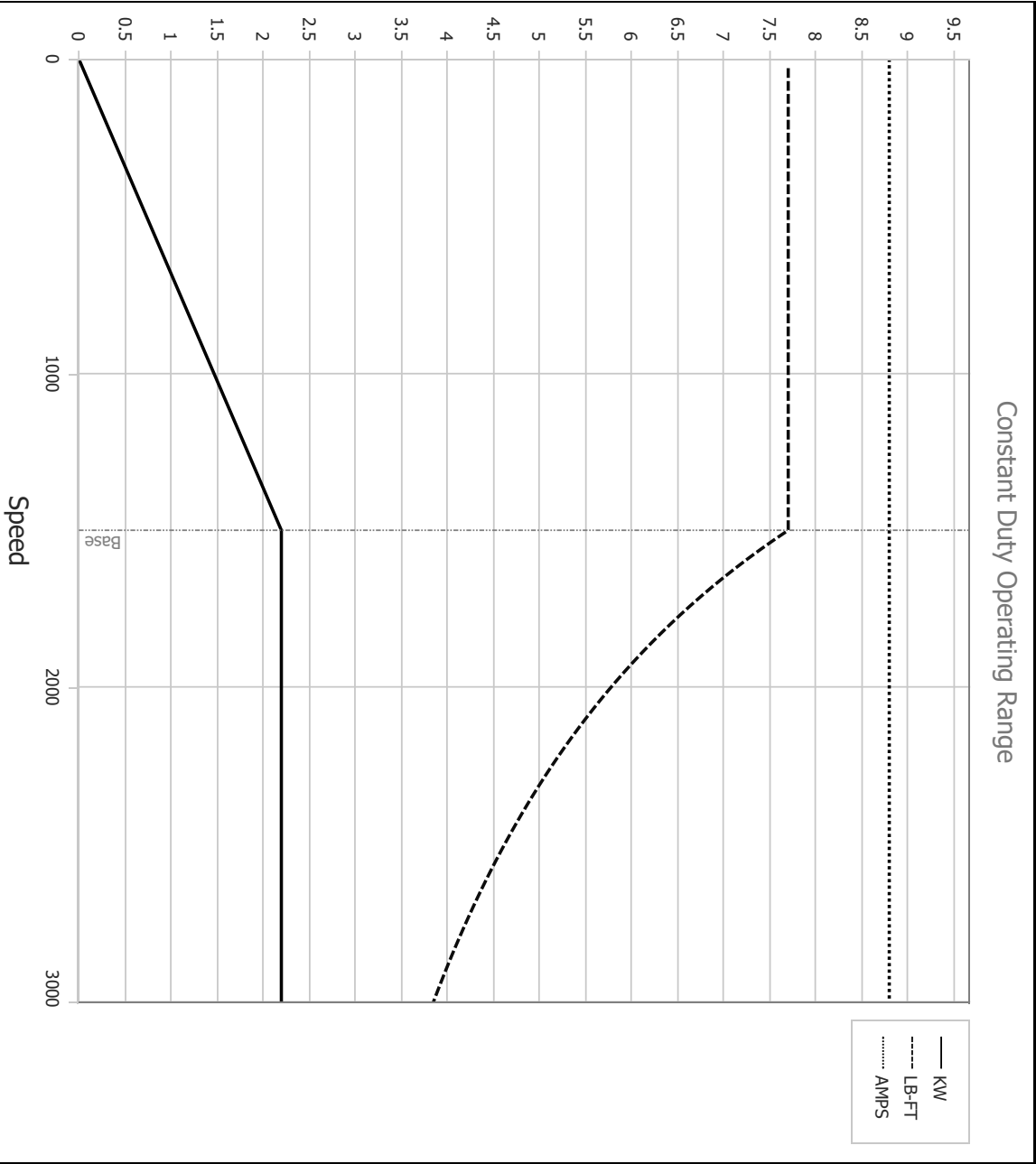
61800-9-2 PDS Performance at Reference Operating Points

	RPM	% Speed	LB-FT	% Torque	KW	System Efficiency	Loss (% FL)	Watts Loss (W)
P1	1500	100%	10.3	100%	2.9	89.7	11.52%	253
P2	750	50%	10.3	100%	1.5	83.9	9.55%	210
P3	255	17%	10.3	100%	0.5	67.5	8.17%	180
P4	1500	100%	5.2	50%	1.5	89.4	5.92%	130
P5	750	50%	5.2	50%	0.7	84.2	4.68%	103
P6	255	17%	5.2	50%	0.3	69.1	3.79%	83
P7	750	50%	2.6	25%	0.4	81.5	2.83%	62
P8	255	17%	2.6	25%	0.1	66.0	2.19%	48

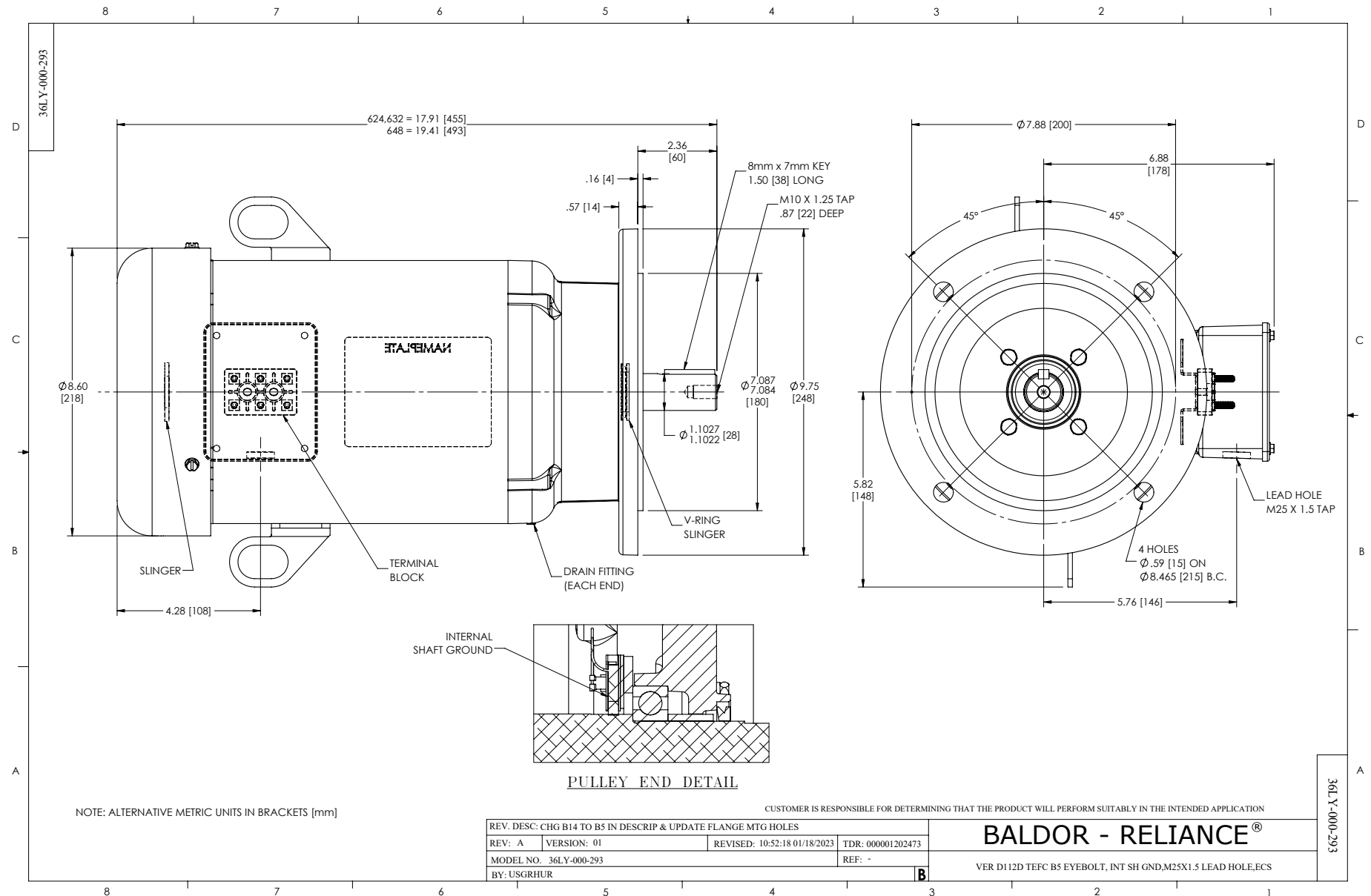
Points not taken in certified order.

BALDOR • RELIANCE	DR By: <u>R & D</u> CK By: <u>USJORAD2</u> APP By: <u>USJAROB1</u> Date: <u>01/15/2025</u>	AC MOTOR PERFORMANCE CURVES	36WGA0019 36-0000-3637 Test - 111800
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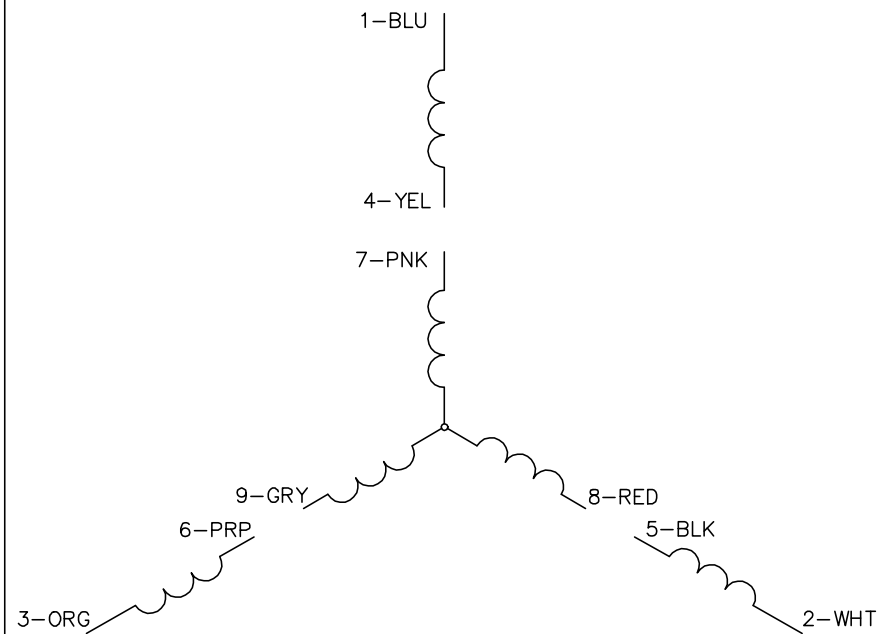
Volts	190/380	Max RPM	3000	Conn Diag.	CD0005A25	Leads	9	
Amps	8.6/4.3	Max Amps		Cs Diagram	CS0576	BEMF	0	
KW	2.2	VFD #	ACS380-040S-05			LD	0	
RPM	1500	S.F.	1.00			LQ	0	
Phase/Hz	3/50	Rating	40C AMB-S1			Rs	3.7855	Meas L-L



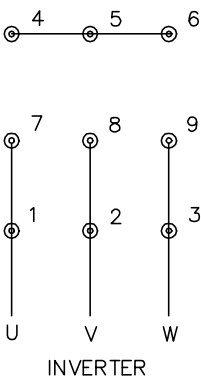
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	APP By:	<u>USJAROB1</u>		
	Date:	<u>01/15/2025</u>		



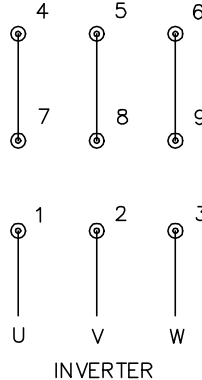
CD0005A25



LOW VOLTAGE
(2Y)



HIGH VOLTAGE
(1Y)



- NOTES:
- 1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
 - 2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
 - 3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

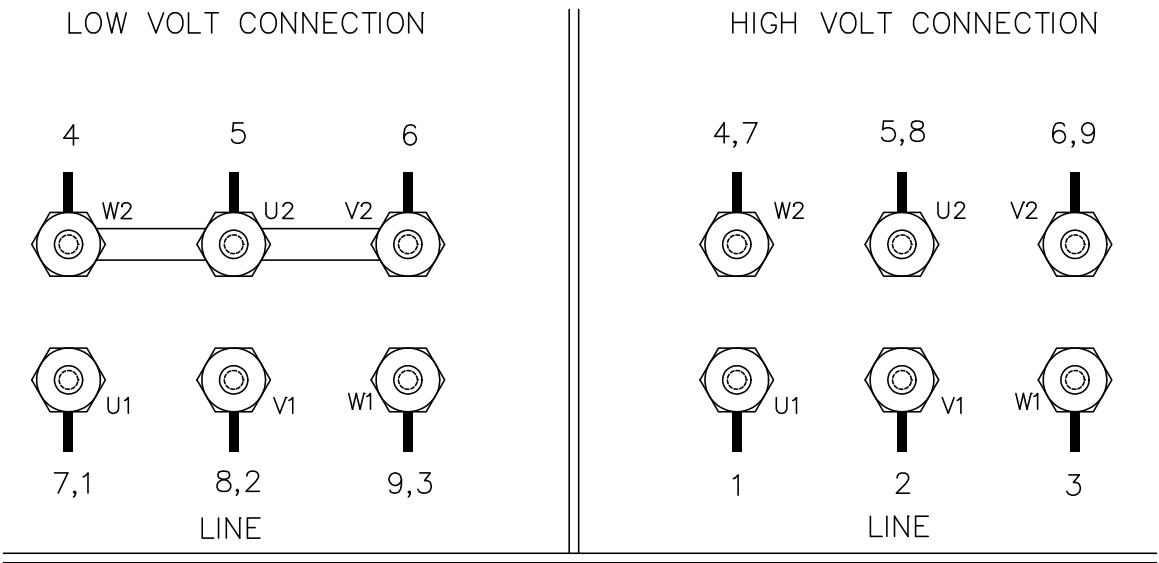
REV. DESC: NEW		
REV. LTR: -	VERSION: 00	TDR: 000001135746
FILE: \AAA\00253\082	REVISED: 01:10:57 03/30/2020	BY: ENMARSO
MTL: -	© □	

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, ECS
SH 1 of 1

CD0005A25

SP0032



TO REVERSE ROTATION
INTERCHANGE ANY TWO
LINE LEADS.

MATL:			
REV:	A	ADD CONN LABEL REF TO DESC	
SP0032		SCALE: -	BY: JLP
		FILE: AAA00029378	TDR: 0111436

BALDOR ELECTRIC Co.
THREE PHASE, DUAL VOLTAGE, TERMINAL BLOCK, CD0005/LC0005C01

SP0032