

BALDOR® • RELIANCE 

Product Information Packet

EM7053T

15//10HP,3520//2930RPM,3PH,60//50HZ,254T

Part Detail							
Revision:	U	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	09WGZ602	CD Diagram:	CD0180	Mfg Plant:	
Mech. Spec:	09E270	Layout:	09LYE270	Poles:	02	Created Date:	06-16-2010
Base:	RG	Eff. Date:	03-09-2020	Leads:	9#12		

Specs			
Catalog Number:	EM7053T	Heater Indicator:	No Heater
Enclosure:	XPFC	Insulation Class:	F
Frame:	254T	Inverter Code:	Not Inverter
Frame Material:	Iron	IP Rating:	NONE
Output @ Frequency:	10.000 HP @ 50 HZ	KVA Code:	G
	15.000 HP @ 60 HZ	Lifting Lugs:	Standard Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	230.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 12 AWG
	190.0 V @ 50 HZ	Motor Lead Exit:	Ko Box
	460.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	380.0 V @ 50 HZ	Motor Type:	X0930M
XP Class and Group:	CLI GP D; CLII GP F,G	Mounting Arrangement:	F1
XP Division:	Division I	Power Factor:	87
Agency Approvals:	UL	Product Family:	Hazardous Location Motor
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Standard
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	None
Base Indicator:	Rigid	Rodent Screen:	None

Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End
Current @ Voltage:	35.000 A @ 230.0 V	Shaft Ground Indicator:	No Shaft Grounding
	38.000 A @ 208.0 V	Shaft Rotation:	Reversible
	29.400 A @ 190.0 V	Shaft Slinger Indicator:	No Slinger
	17.500 A @ 460.0 V	Speed Code:	Single Speed
	14.700 A @ 380.0 V	Motor Standards:	NEMA
Design Code:	B	Starting Method:	Direct on line
Drip Cover:	No Drip Cover	Thermal Device - Bearing:	None
Duty Rating:	CONT	Thermal Device - Winding:	Normally Closed Thermostat
Electrically Isolated Bearing:	Not Electrically Isolated	Vibration Sensor Indicator:	No Vibration Sensor
Feedback Device:	NO FEEDBACK	Winding Thermal 1:	None
Front Face Code:	Standard	Winding Thermal 2:	None
Front Shaft Indicator:	None	XP Temp Code:	T3C

Nameplate NP1426XPSLEV	
NO.	[] CC 010A []
SER.	[]
SPEC.	09E270Z602G1
CAT.NO.	EM7053T
HP	15//10 T. CODE T3C []
VOLTS	230/460//190/380
AMPS	35/17.5//29.4/14.7
RPM	3520//2930
HZ	60//50 PH 3 [] CL F []
SER.F.	1.00 DES B [] CODE G []
RATING	40C AMB-CONT
FRAME	254T NEMA-NOM-EFF 91 []
USABLE AT 208V	38 PF 87 []
BLANK	[]

Parts List		
Part Number	Description	Quantity
SA198670	SA 09E270Z602G1	1.000 EA
RA186032	RA 09E270Z602G1	1.000 EA
37FN3002C02	EXFN, PLASTIC, 6.00 OD, 1.503 ID	1.000 EA
MJ5000A01	SEALANT, CHICO A COMPOUND	0.031 LB
09CB1000A57	CONDUIT BOX, MACH	1.000 EA
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 EA
HW1001A31	LOCKWASHER 5/16, ZINC PLT .591 OD, .319 I	4.000 EA
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 EA
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 EA
09EP1700A01	FR ENDPLATE, MACH	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 EA
HA2002A05	SPACER, #208 BRG	1.000 EA
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 EA
09EP1707A01	PU ENDPLATE, MACH	1.000 EA
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 EA
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 EA
09FH1004A01	FAN COVER, MACH	1.000 EA
10XN2520K14	1/4-20 X .88 HEX GRD 5 (20001)	3.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	6.000 EA
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 EA
09CB1500A01SP	CONDUIT BOX LID, MACH	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	6.000 EA
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1073	ALUM XP CAUTION LABEL	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.080 LB
HW4500A20	1/8NPT SL PIPE PLUG	2.000 EA
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
MG1025G05	WILKOFASST, 789.227, MED. GRAY CHAR. MET.	0.050 GA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	6.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0181	CONNECTION LABEL	1.000 EA
NP1426XPSLEV	SS XP UL CSA-EEV CC CL-I GP-D	1.000 EA
40PA1005	PACKAGING GROUP, 09 STD	1.000 EA

AC Induction Motor Performance Data

Record # 31461 - Typical performance - not guaranteed values

Winding: 09WGZ602-R002	Type: 0930M	Enclosure: XPFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	15//10			Full Load Torque	22.1 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	35/17.5//29.4/14.7			Breakdown Torque	105 LB-FT
R.P.M.	3520//2930			Pull-up Torque	26.2 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	36.3 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	110 A
Service Factor (S.F.)	1			No-load Current	5.58 A
NEMA Nom. Eff.	91	Power Factor	87	Line-line Res. @ 25°C	0.68654 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
				Locked-rotor Power Factor	30
				Rotor inertia	0.766 LB-FT ²

Load Characteristics 460 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	55	77	85	87	89	89
Efficiency	86.4	91	91.6	91	90	88.6
Speed	3582.7	3563.6	3542.7	3520.9	3495.8	3468.3
Line amperes	6.93	9.78	13.5	17.5	21.6	26.4

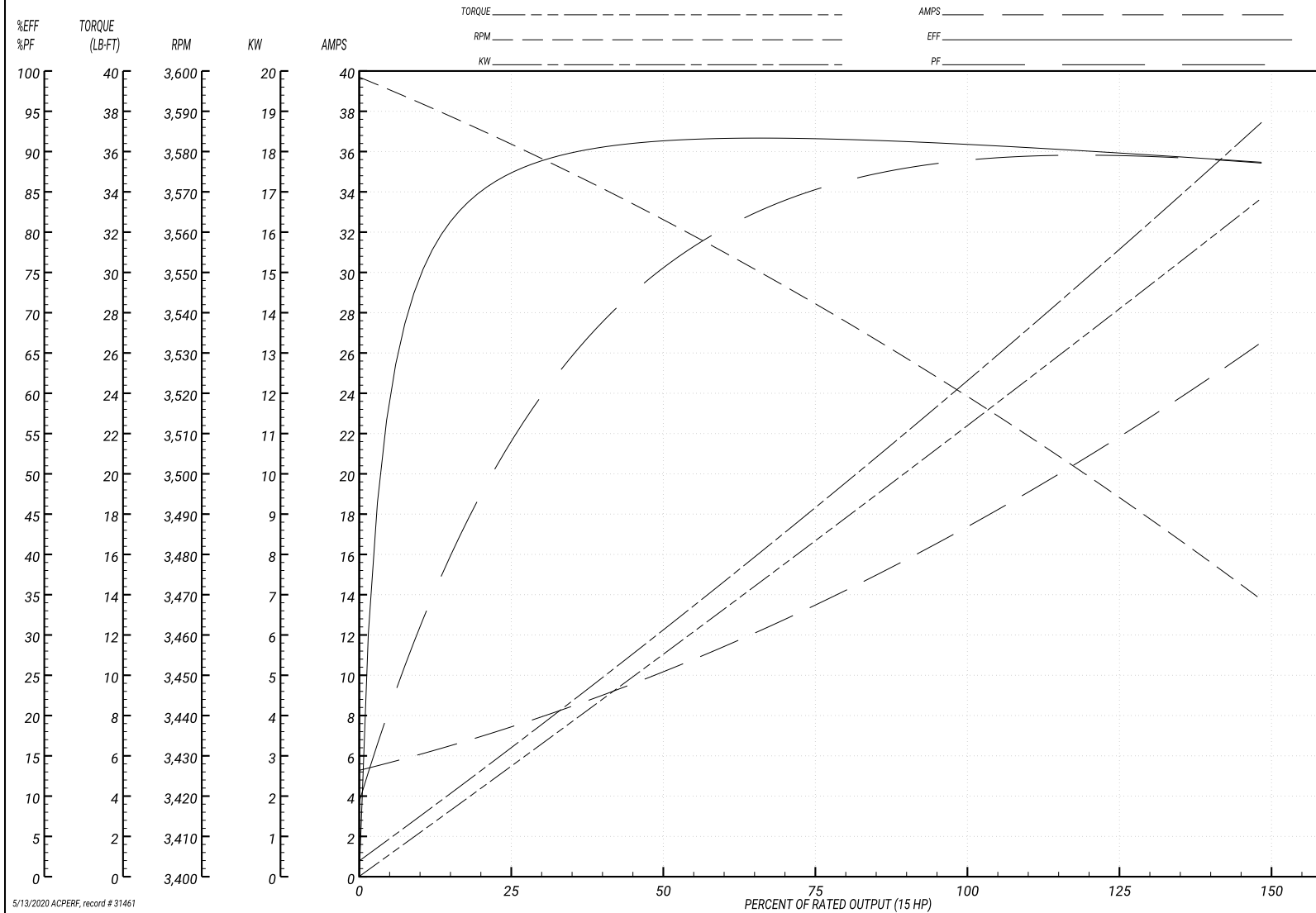
Performance Graph at 460V, 60Hz, 15.0HP Typical performance - Not guaranteed values

ABB Motors and Mechanical Inc.

WINDING # 09WGZ602

Typical performance - not guaranteed values.

15 HP 3 PH 60 HZ 3520.9 RPM 460 V 0930M
 TORQUES(LB-FT): PO=105 PU=26.2 LR=36.3 LRA=110



5/13/2020 ACPERF, record # 31461

AC Induction Motor Performance Data

Record # 31462 - Typical performance - not guaranteed values

Winding: 09WGZ602-R002	Type: 0930M	Enclosure: XPFC
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Nameplate Data				380 V, 50 Hz: High Voltage Connection	
Rated Output (HP)	15//10			Full Load Torque	17.7 LB-FT
Volts	230/460//190/380			Start Configuration	direct on line
Full Load Amps	35/17.5//29.4/14.7			Breakdown Torque	101 LB-FT
R.P.M.	3520//2930			Pull-up Torque	27.8 LB-FT
Hz	60//50	Phase	3	Locked-rotor Torque	38.5 LB-FT
NEMA Design Code	B	KVA Code	G	Starting Current	107 A
Service Factor (S.F.)	1			No-load Current	5.45 A
NEMA Nom. Eff.	91	Power Factor	87	Line-line Res. @ 25°C	0.65 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	47°C
				Locked-rotor Power Factor	34.1
				Rotor inertia	0.766 LB-FT ²

Load Characteristics 380 V, 50 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	49	72	81	85	89	89
Efficiency	84.9	90.2	91.1	90.8	90	88.4
Speed	2986	2970	2953	2936	2916	2894
Line amperes	6.39	8.51	11.4	14.5	17.6	21.3

Performance Graph at 380V, 50Hz, 10.0HP Typical performance - Not guaranteed values

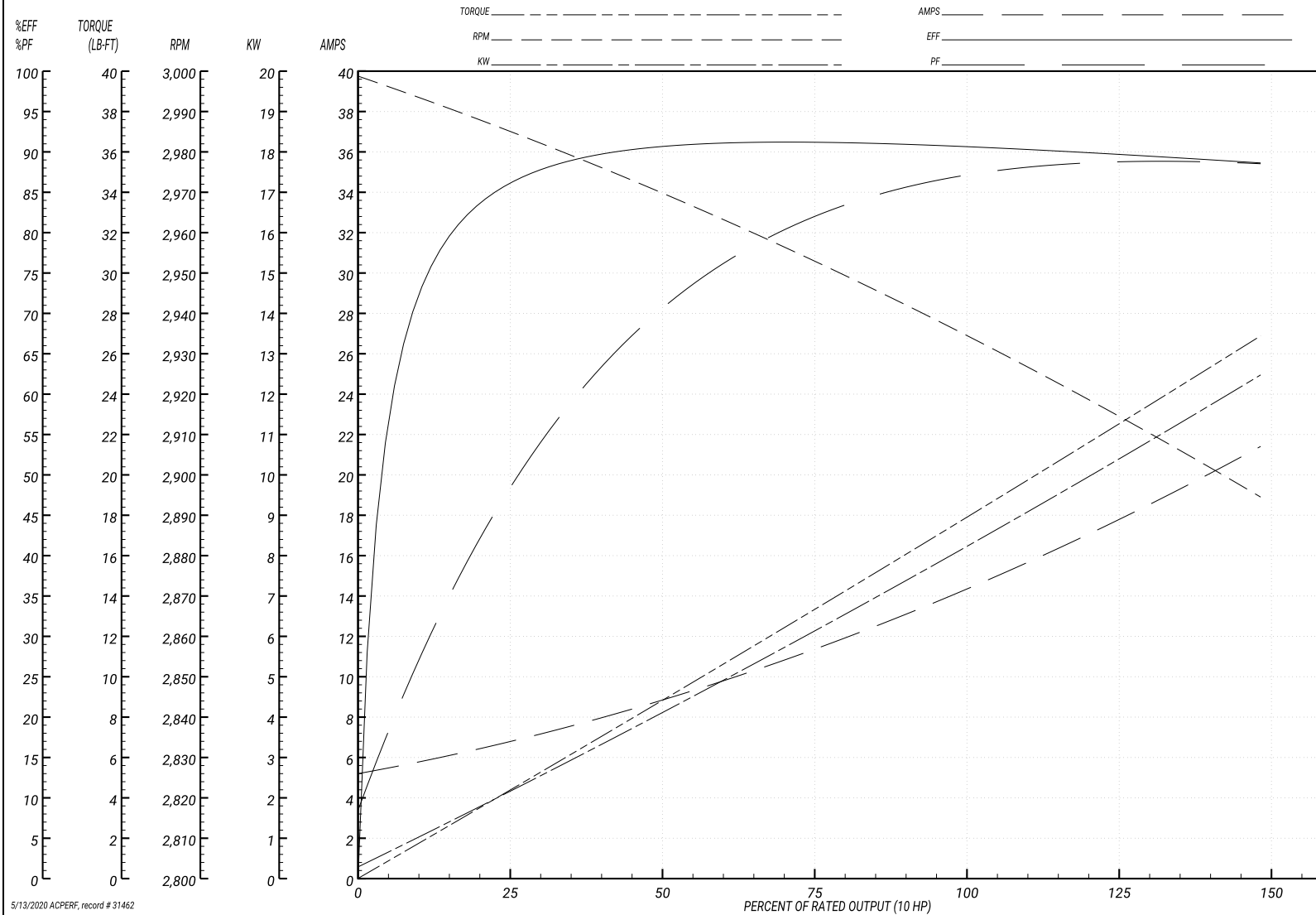
ABB Motors and Mechanical Inc.

WINDING # 09WGZ602

Typical performance - not guaranteed values.

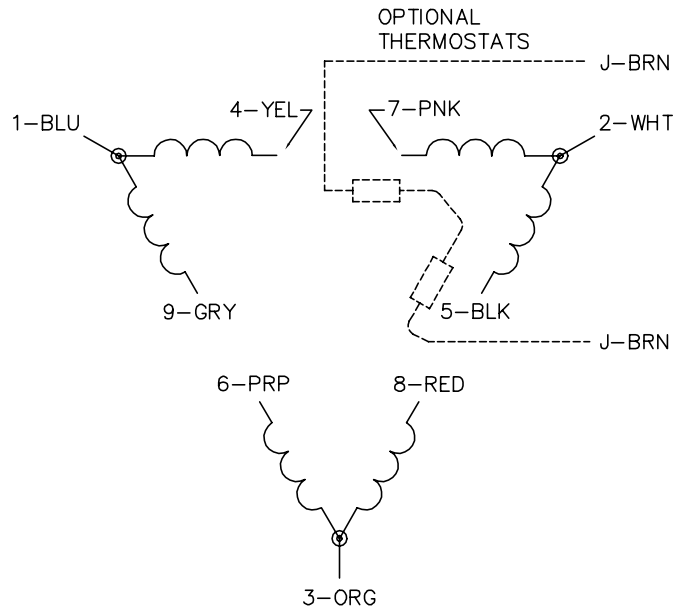
10 HP 3 PH 50 HZ 2936 RPM 380 V 0930M

TORQUES(LB-FT): PO=101 PU=27.8 LR=38.5 LRA=107

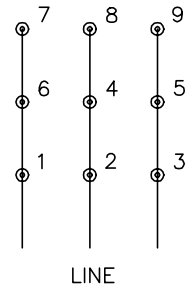


5/13/2020 ACPERF, record # 31462

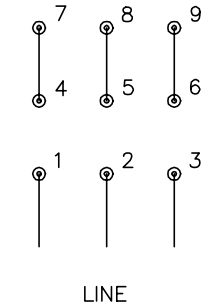
CD0180



LOW VOLTAGE
(2D)



HIGH VOLTAGE
(1D)



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.

CD0180

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FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIRO
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3PH, DV, 9 LEADS, DELTA CONNECTION

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