ABB BALDOR RELIANCE

Customer information packet

EM7036T-I

3//2HP, 1160//960RPM, 3PH, 60//50HZ, 213T, 37
Class - CLI GP C,D
Division - Division I

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Specifications

Enclosure	XPFC
Frame	213T
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	3.000 HP @ 60 HZ
	2.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1000 RPM @ 50 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	UL
	CSA
	CSA EEV
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.000 A @ 380.0 V
	4.600 A @ 460.0 V
	8.000 A @ 190.0 V
	9.200 A @ 230.0 V
	9.600 A @ 208.0 V
Design Code	B

Part Detail

Revision	Q
Type	AC
Mech. spec.	37H721
Base	
Status	PRD/A
Elec. spec.	37WGS519
Layout	37LYH721
Eff. date	02-21-2024
CD Diagram	CD0005
Poles	06
Leads	9#14
Proprietary	False
Created date	06-21-2010

Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	4.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3738M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	20.32 IN
Power Factor	68
Product Family	General Purpose
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding

Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1160 rpm
	960 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP0977XPSLEV										
NO.						**CC**	010A			
SER.						**TEMP CODE**	T3C			
SPEC.	37H721S519G1									
CAT.NO.	EM7036T-I									
HP	3//2									
VOLTS	230/460//190/380									
AMPS	9.2/4.6//8/4									
RPM	1160//960				**MOTOR WEIGHT**		105			
HERTZ	60//50	**PH**	3	**CL**	F	**DE BRG**	6307			
SER.F.	1.15	**DES**	B	**CODE**	L	**ODE BRG**	6206			
FRAME	213T	**GREASE**	POLYREX EM							
RATING	40C AMB-CONT 55C AMB AT 1.0 SF									
				NEMA-NOM-EFF			89.5	**PF**	68	
	NEMA MG-1 PT 5,IP55									

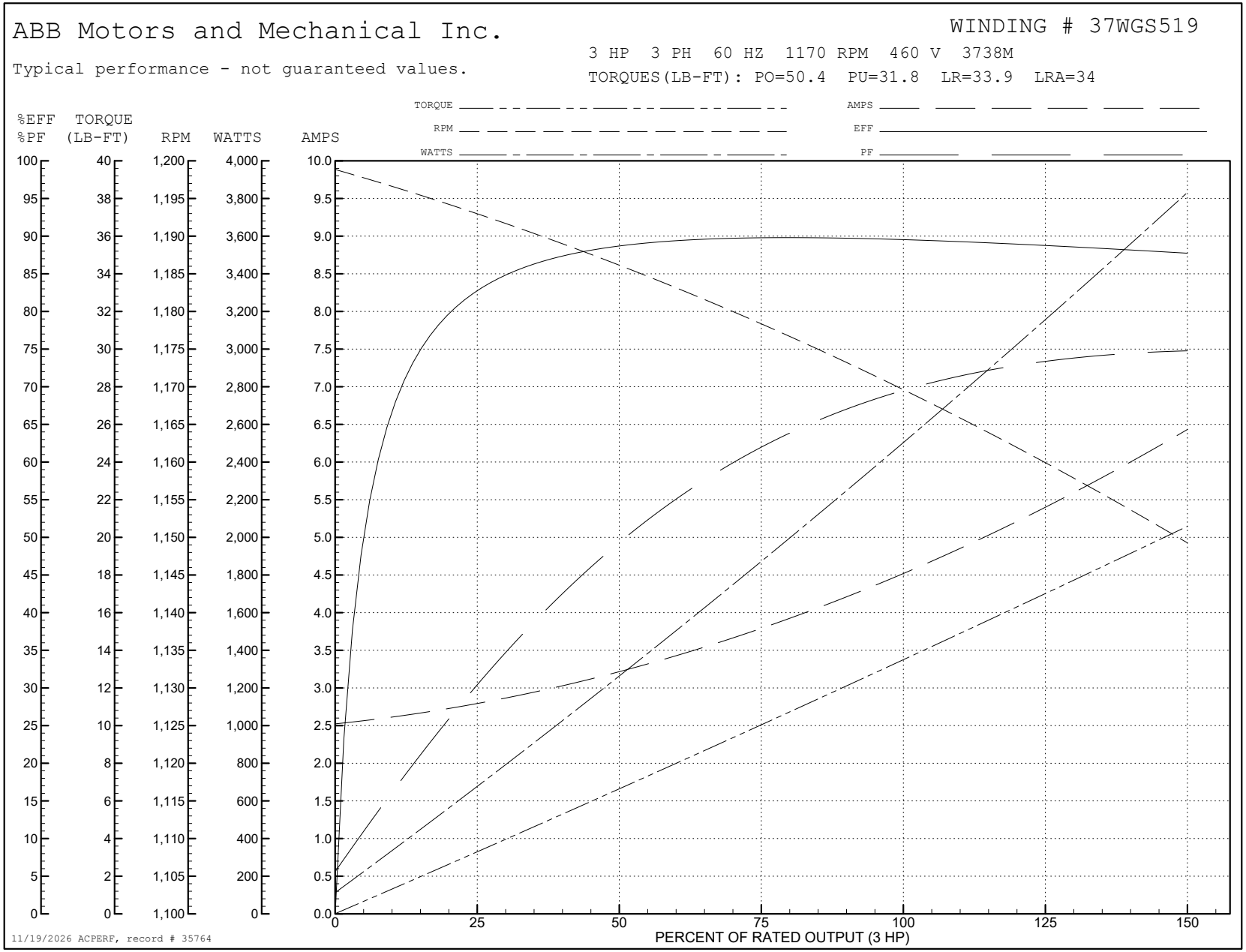
AC Induction Motor Performance Data
Record # 35764
Typical performance - not guaranteed values

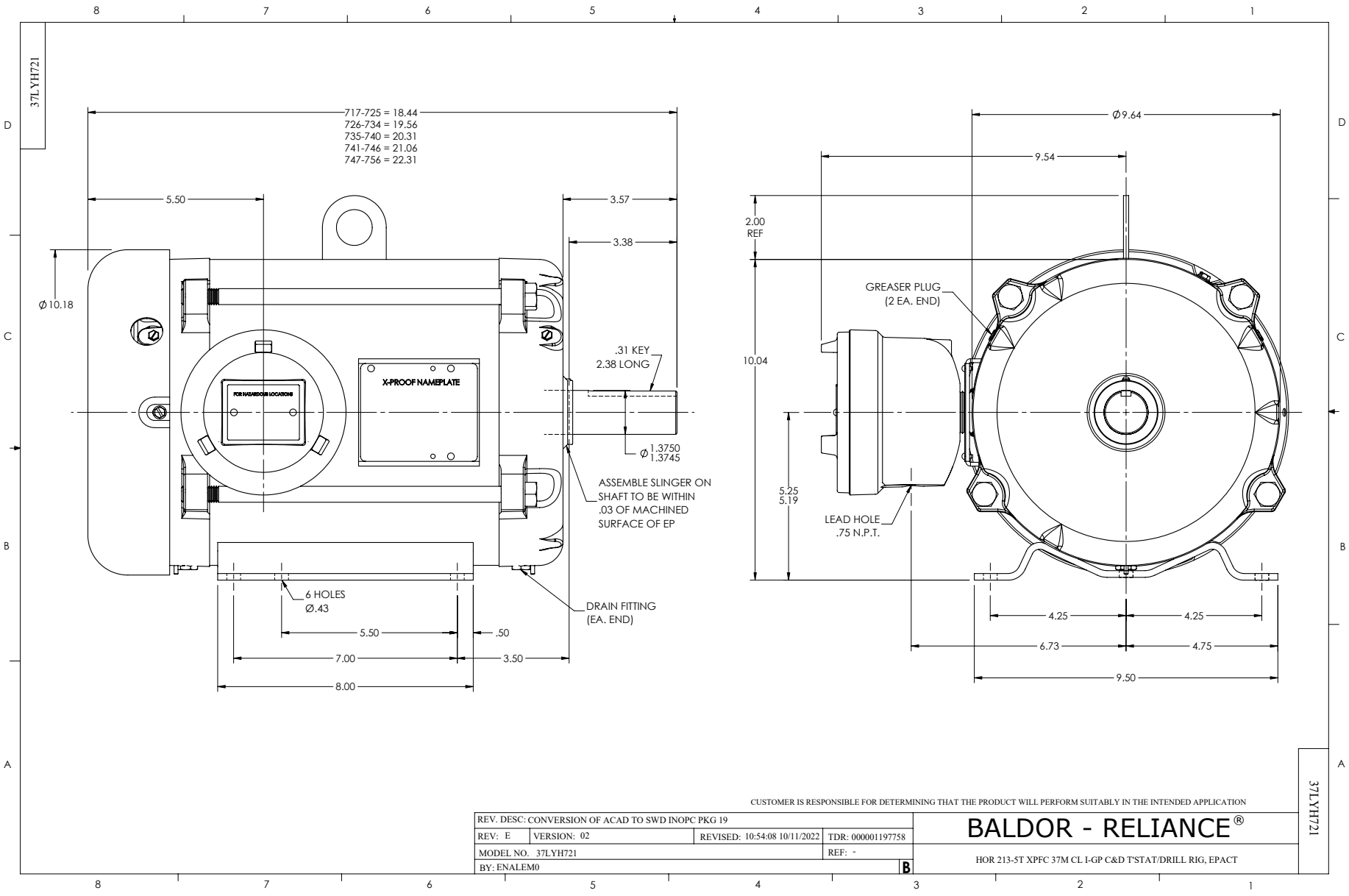
Winding: 37WGS519-R003	**Type:** 3738M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3//2	**Full Load Torque**	13.4 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			9.2/4.6//8/4	**Breakdown Torque**	50.4 LB-FT
R.P.M.			1160//960	**Pull-up Torque**	31.8 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	33.9 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	34 A
Service Factor (S.F.)			1.15	**No-load Current**	2.56 A
NEMA Nom. Eff.	89.5	**Power Factor**	68	**Line-line Res. @ 25ºC**	2.67 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	38°C
S.F. Amps				**Temp. Rise @ S.F. Load**	45°C
				Locked-rotor Power Factor	22.9
				Rotor inertia	0.945 LB-FT2

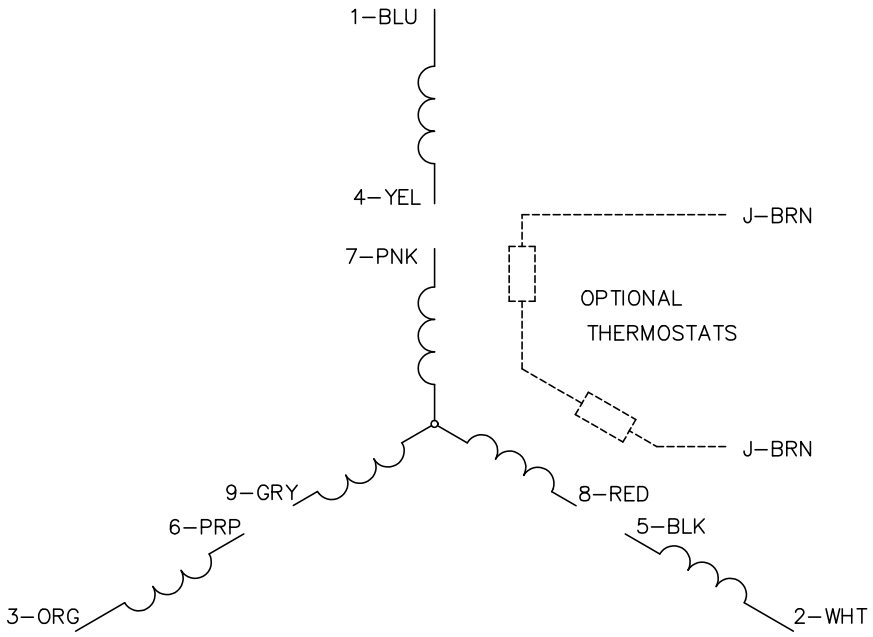
Load Characteristics 460 V, 60 Hz, 3 HP

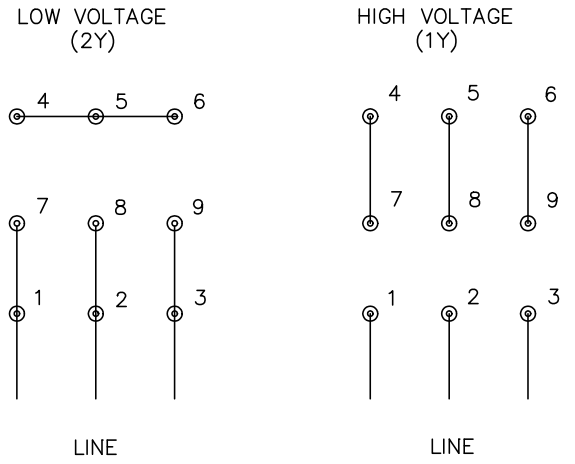
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	50	62	69	73	75	70
Efficiency	82.1	88.6	89.5	89.8	89.1	87.6	89.1
Speed	1193	1186	1178	1170	1160	1149	1166
Line amperes	2.74	3.19	3.82	4.53	5.44	6.41	5.14


ABB Motors and Mechanical Inc.
WINDING # 37WGS519
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 1170 RPM 460 V 3738M
TORQUES(LB-FT): PO=50.4 PU=31.8 LR=33.9 LRA=34
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
11/19/2026 ACPERF, record # 35764


37LYH721
717-725 = 18.44
726-734 = 19.56
735-740 = 20.31
741-746 = 21.06
747-756 = 22.31
5.50
3.57
3.38
Ø10.18
.31 KEY
2.38 LONG
X-PROOF NAMEPLATE
FOR HAZARDOUS LOCATIONS
Ø1.3750
1.3745
ASSEMBLE SLINGER ON SHAFT TO BE WITHIN .03 OF MACHINED SURFACE OF EP
6 HOLES
Ø.43
5.50
.50
7.00
3.50
8.00
DRAIN FITTING (EA. END)
Ø9.64
9.54
2.00 REF
GREASER PLUG (2 EA. END)
10.04
5.25
5.19
LEAD HOLE .75 N.P.T.
4.25
4.25
6.73
4.75
9.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERSION OF ACAD TO SWD INOPC PKG 19
REV: E
VERSION: 02
REVISED: 10:54:08 10/11/2022
TDR: 000001197758
MODEL NO. 37LYH721
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR 213-5T XPFC 37M CL I-GP C&D T'STAT/DRILL RIG, EPACT
37LYH721

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