ABB BALDOR RELIANCE

Customer information packet

RL1304A277

.5HP/1725RPM/1PH/OPEN/NEMA 56
Class - None
Division - Not Applicable

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Specifications

Enclosure	OPEN
Frame	56
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.500 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	277.0 V @ 60 HZ
Agency Approvals	UR
	CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Resilient
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.600 A @ 277.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Resilient Mount
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.6 a
Insulation Class	B
Inverter Code	Not Inverter

Part Detail

Revision	Z
Type	AC
Mech. spec.	34L033
Base	
Status	PRD/A
Elec. spec.	34WGW310
Layout	34LYL033
Eff. date	10-28-2024
CD Diagram	CD0085
Poles	04
Leads	5#18
Proprietary	False
Created date	01-01-0001

KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel
Motor Lead Quantity/Wire Size	5 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3418L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.59 IN
Power Factor	61
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Resilient Mount
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible: Connected Standard
Shaft Slinger Indicator	No Slinger
Speed	1725 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	Automatic Thermal Overload
Winding Thermal 1 Location	SB
Winding Thermal 2	None

Nameplate

NP1257L											
CAT.NO.	RL1304A277										
SPEC.	34L33W310										
HP	.5										
VOLTS	277										
AMP	3.6										
RPM	1725										
FRAME	56		**HZ**	60		**PH**	1				
SER.F.	1.25	**CODE**	K	**DES**	N	**CL**	B				
NEMA-NOM-EFF	62	**PF**	61								
RATING	40C AMB-CONT										
CC											
DE	6203	**ODE**	6203								
ENCL	OPEN	**SN**									
	SFA 4										

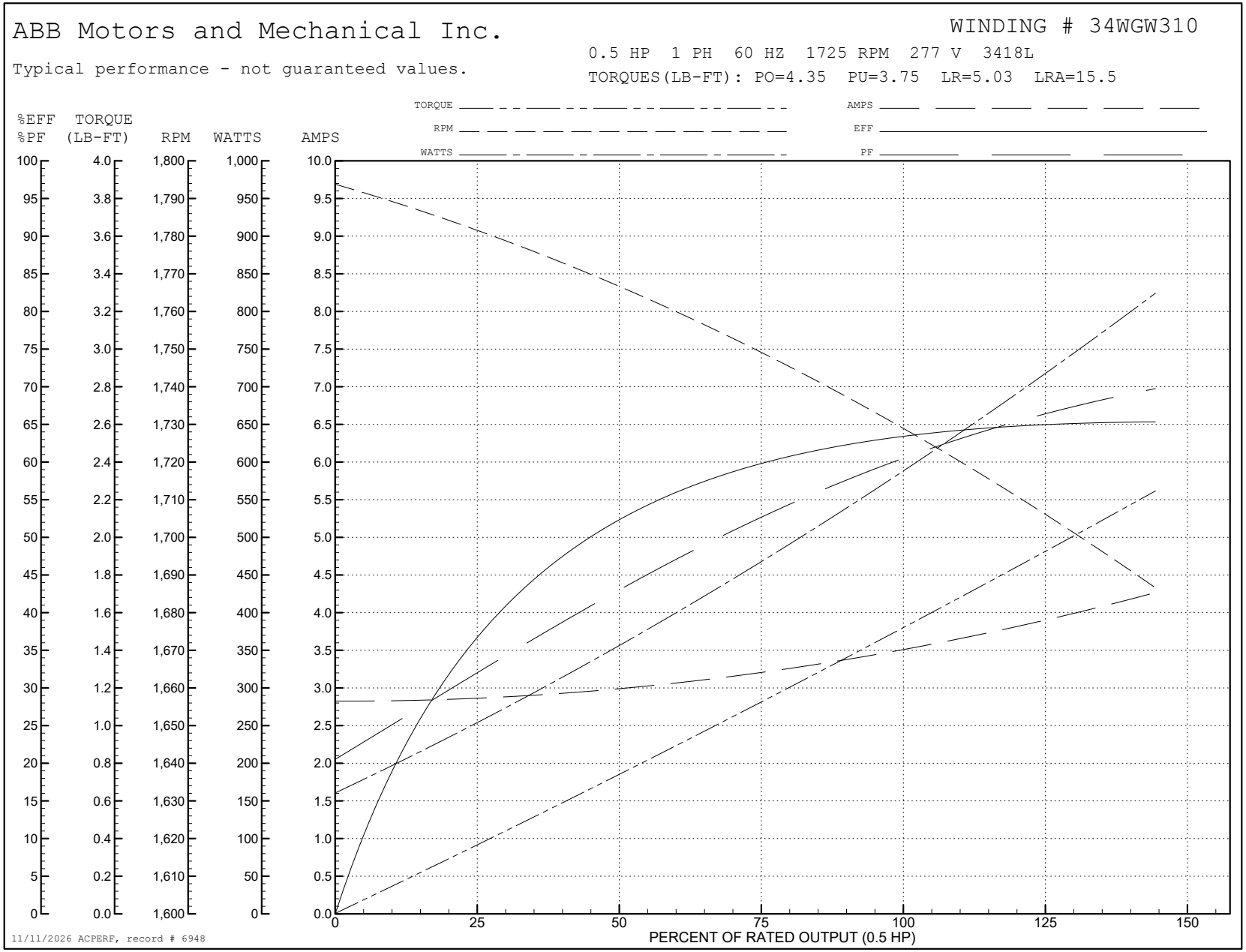
AC Induction Motor Performance Data
Record # 6948
Typical performance - not guaranteed values

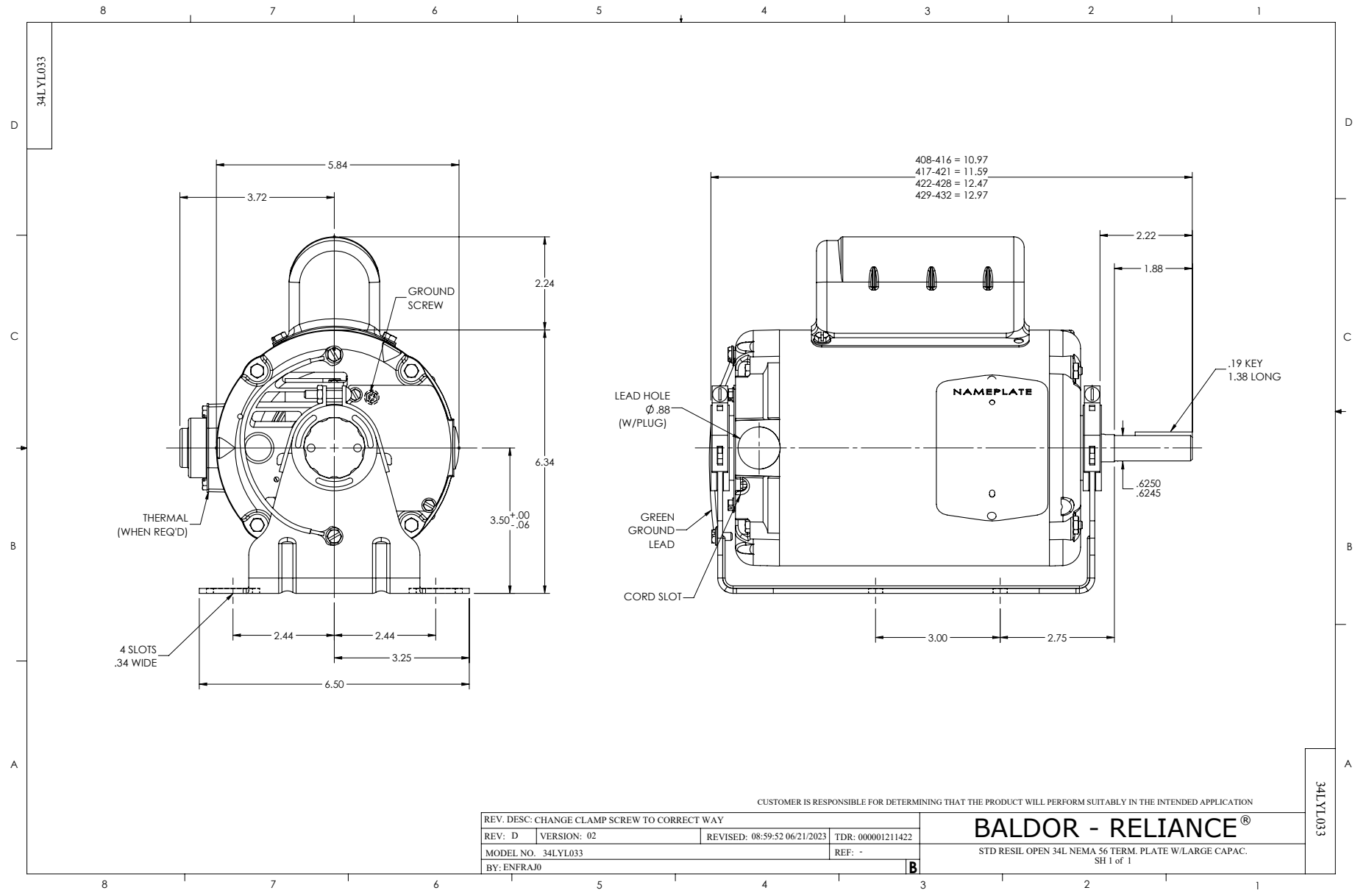
Winding: 34WGW310-R001	**Type:** 3418L	**Enclosure:** OPEN

Nameplate Data				**277 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			.5	**Full Load Torque**	1.5 LB-FT
Volts			277	**Start Configuration**	direct on line
Full Load Amps			3.6	**Breakdown Torque**	4.35 LB-FT
R.P.M.			1725	**Pull-up Torque**	3.75 LB-FT
Hz	60	**Phase**	1	**Locked-rotor Torque**	5.03 LB-FT
NEMA Design Code	N	**KVA Code**	K	**Starting Current**	15.5 A
Service Factor (S.F.)			1.25	**No-load Current**	2.8 A
NEMA Nom. Eff.	62	**Power Factor**	61	**Line-line Res. @ 25ºC**	6.38 Ω A Ph 18.2 Ω B Ph
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	59°C
S.F. Amps			4	**Temp. Rise @ S.F. Load**	68°C

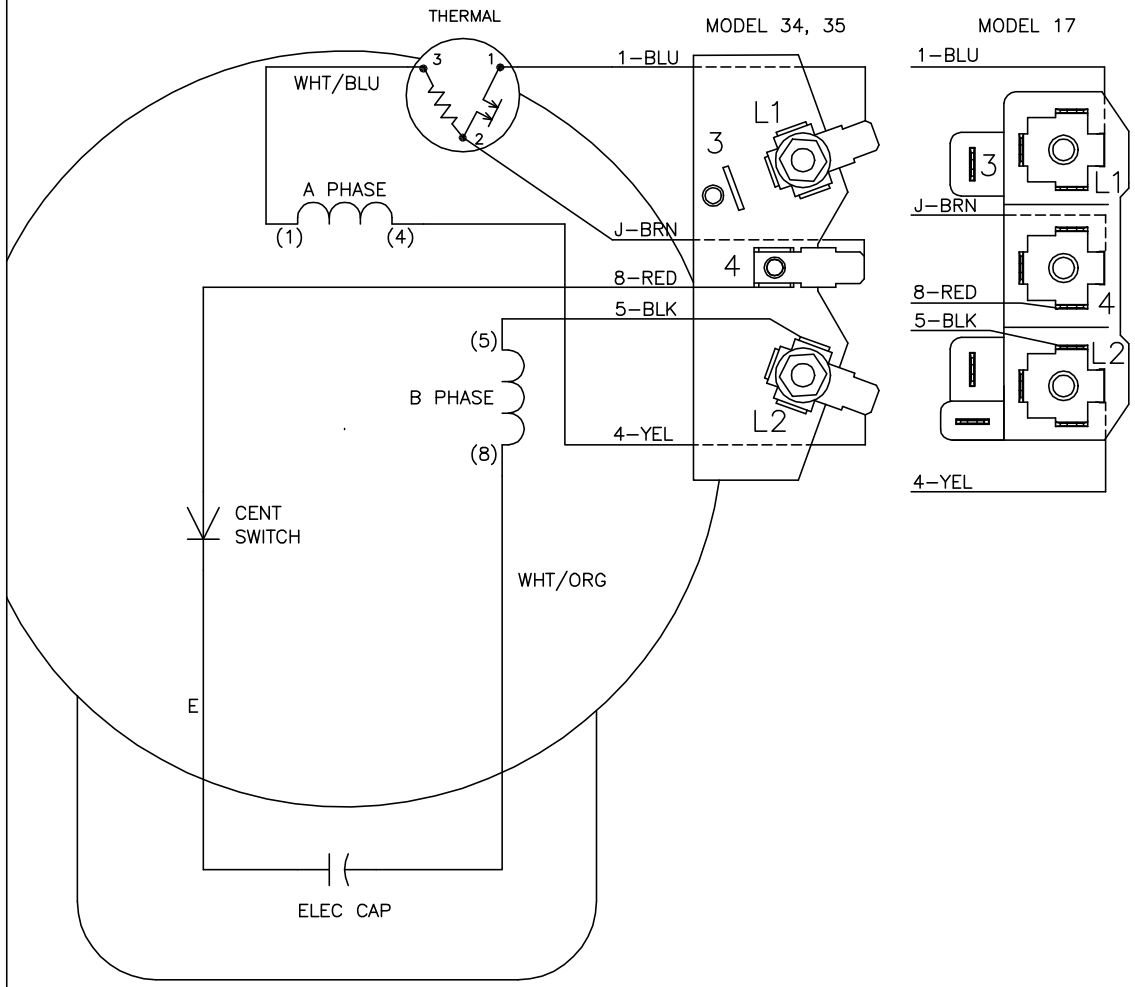
Load Characteristics 277 V, 60 Hz, 0.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	30	42	53	62	69	77	69
Efficiency	36	52	60	64	65	65	65
Speed	1780	1765	1750	1730	1711	1685	1711
Line amperes	2.9	3	3.2	3.5	3.8	4.3	3.8


ABB Motors and Mechanical Inc.
WINDING # 34WGW310
Typical performance - not guaranteed values.
0.5 HP 1 PH 60 HZ 1725 RPM 277 V 3418L
TORQUES(LB-FT): PO=4.35 PU=3.75 LR=5.03 LRA=15.5
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/11/2026 ACPERF, record # 6948


34LYL033
5.84
3.72
2.24
GROUND SCREW
6.34
3.50 +.00 -.06
THERMAL (WHEN REQ'D)
4 SLOTS .34 WIDE
2.44
2.44
3.25
6.50
408-416 = 10.97
417-421 = 11.59
422-428 = 12.47
429-432 = 12.97
2.22
1.88
.19 KEY
1.38 LONG
NAMEPLATE
LEAD HOLE Ø .88 (W/PLUG)
.6250
.6245
GREEN GROUND LEAD
CORD SLOT
3.00
2.75
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE CLAMP SCREW TO CORRECT WAY
REV: D
VERSION: 02
REVISED: 08:59:52 06/21/2023
TDR: 000001211422
MODEL NO. 34LYL033
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
STD RESIL OPEN 34L NEMA 56 TERM. PLATE W/LARGE CAPAC.
SH 1 of 1
34LYL033

CD0085



NOTES:

1. CONNECT LINE LEADS TO L1 AND L2.
2. CONNECTIONS ARE SHOWN FOR STANDARD ROTATION (CCW FACING END OPPOSITE SHAFT EXTENSION). INTERCHANGE LEADS 5 AND 8 TO REVERSE ROTATION.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0085

REV. DESC: REMOVE OPTIONAL THERMAL CONNECTION			BALDOR ELECTRIC Co.
REV. LTR: J	VERSION: 01	TDR: 000000373039	
CD0085	FILE: \AAA\00007\109	REVISED: 13:27:48 08/11/2005	TYPE L, SV, REV, THERMAL, TERMINAL PLATE
	MTL: –	BY: ENJOEP0	