

PRODUCT INFORMATION PACKET

Model No: 254VTDC6001

Catalog No: V115A

Vertical Pump Motor, 20 & 15 HP, 3 Ph, 60 & 50 Hz, 230/460 & 190/380 V, 3600 & 3000 RPM,
254TPV Frame, WPI



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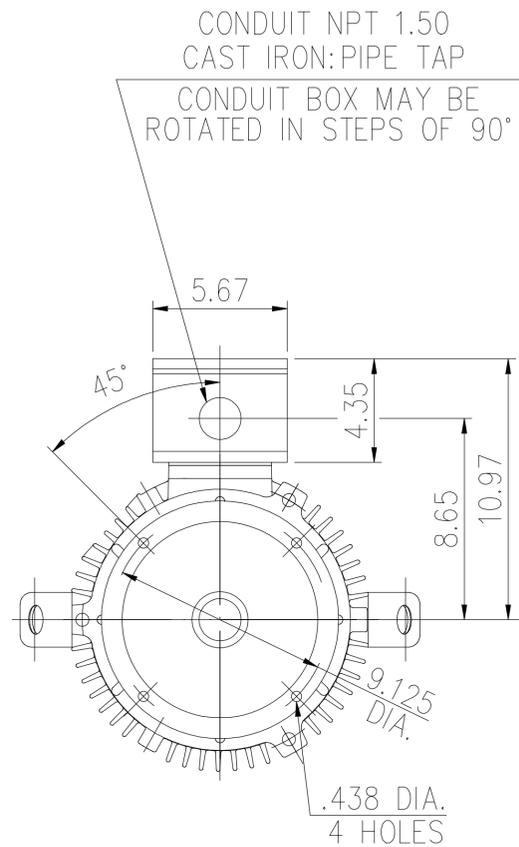
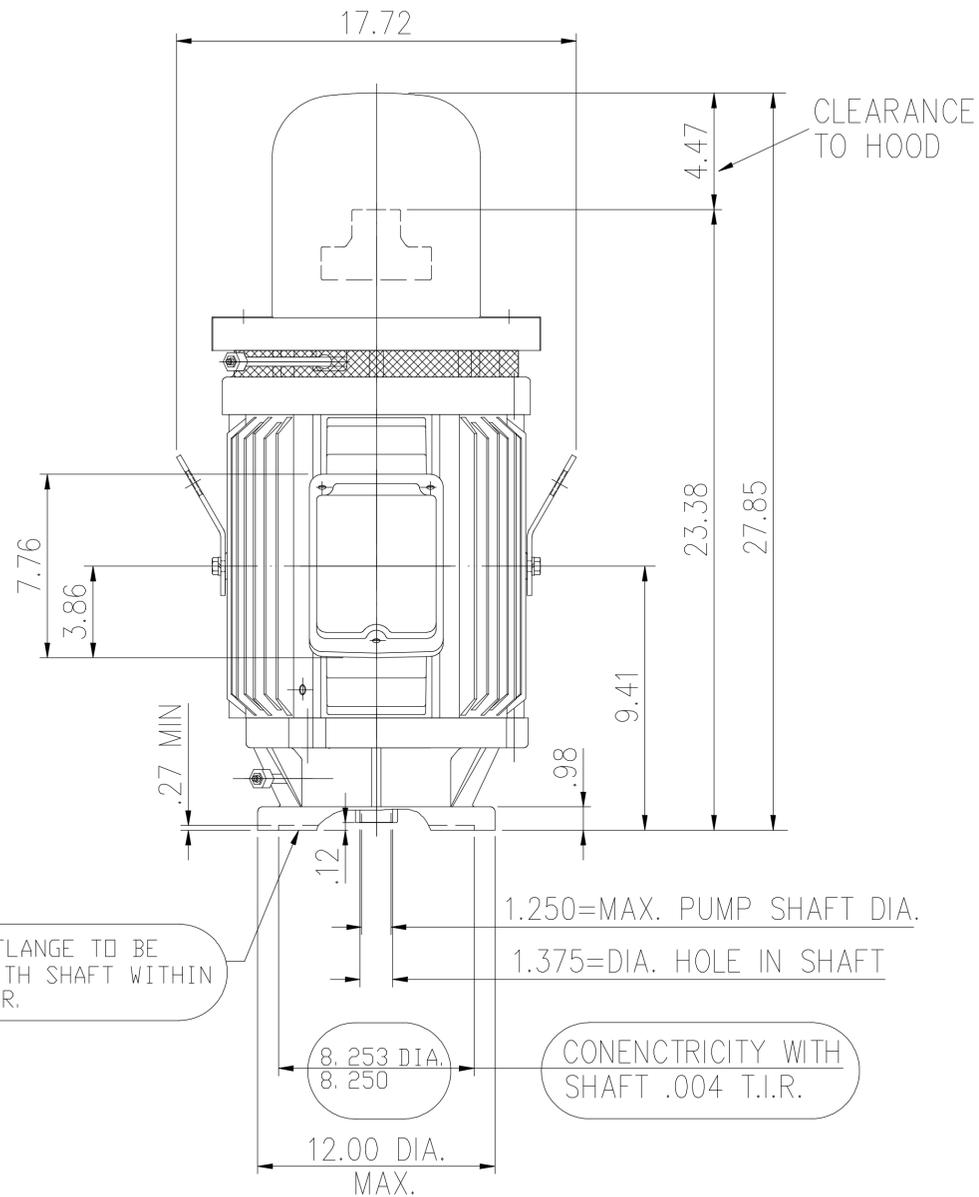
Nameplate Specifications

Phase	3	Output HP	20 & 15 Hp
Output KW	14.9 & 11.2 kW	Voltage	230/460 & 190/380 V
Speed	3530 & 2940 rpm	Service Factor	1.15 & 1.15
Frame	254TPV	Enclosure	Weather Protected 1
Thermal Protection	No Protection	Efficiency	91 & 89.5 %
Ambient Temperature	40 °C	Frequency	60 & 50 Hz
Current	47.5/23.7 & 44/22.1 A	Power Factor	87
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Drive End Bearing Size	6309	Opp Drive End Bearing Size	7311B
UL	Recognized	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

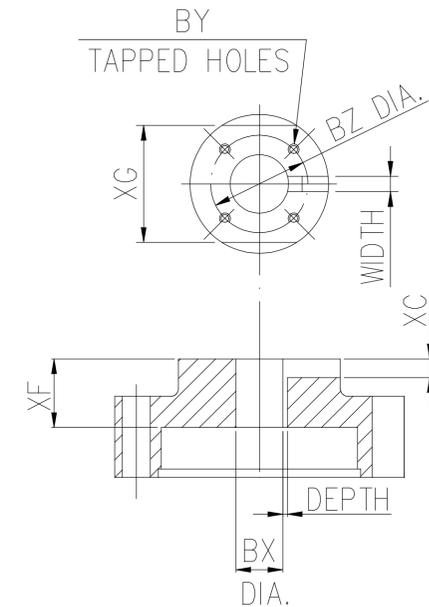
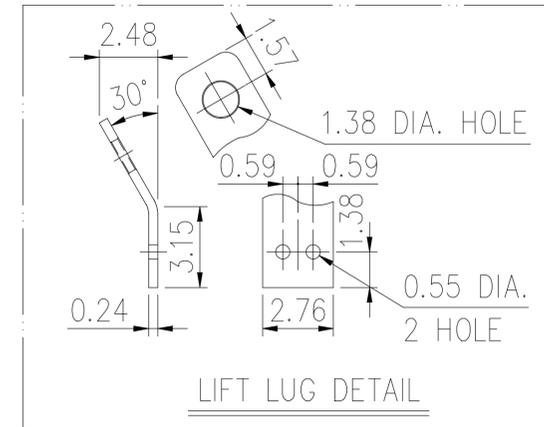
Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Part Wdg Start Low Volt Only & Wye Start Delta Run Or Inverter
Poles	2	Rotation	Counterclockwise Rotation, Reversible without Non-Reversible Ratchet
Mounting	Round	Motor Orientation	Shaft Down
Drive End Bearing	Ball	Opp Drive End Bearing	Single Angular Contact
Frame Material	Cast Iron	Shaft Type	TP
Overall Length	27.85 in	Shaft Diameter	1.375 in
Shaft Extension	0.12 in	Assembly/Box Mounting	F1/F2 CAPABLE
Inverter Load	VARIABLE 3:1		
Outline Drawing	SS620835	Connection Drawing	EE7308DX

COUPLING	BX DIA.	KEYWAY		BY	BZ	XF	XC
		WIDE	DEEP				
	1.001	0.250	0.140	10-32UNF	1.375	1.650	0.430
	1.188	0.250	0.140	1/4-20UNC	1.750	1.650	0.430
	1.251	0.250	0.140	1/4-20UNC	1.750	1.650	0.430
	0.751	N/A	N/A	N/A	N/A	N/A	N/A



BOTTOM VIEW OF MOTOR

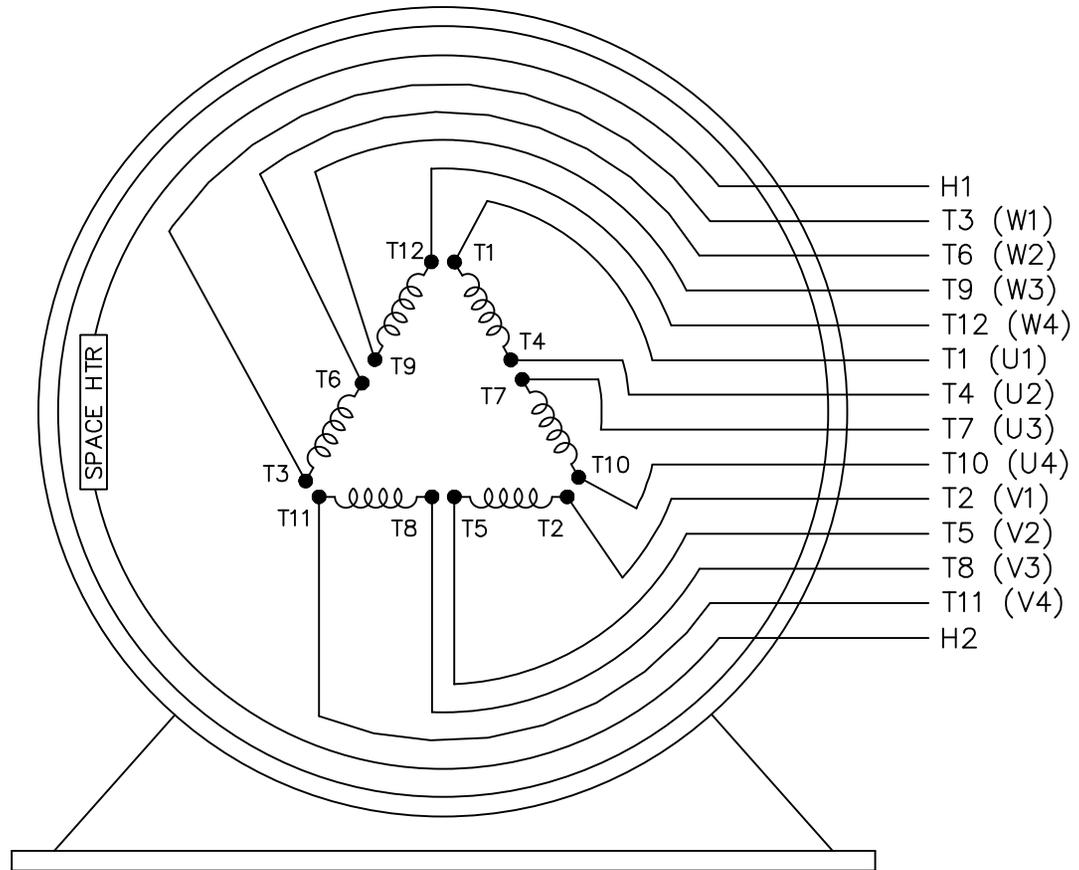
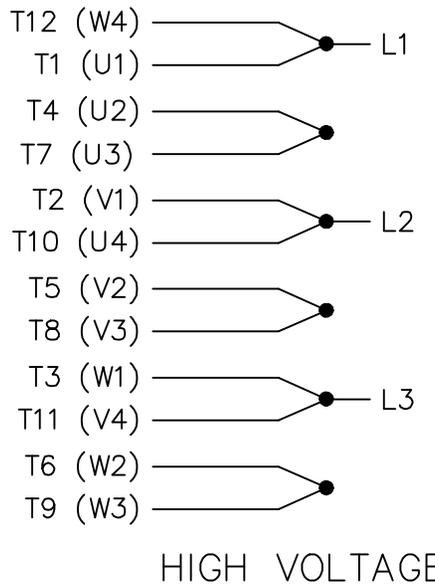
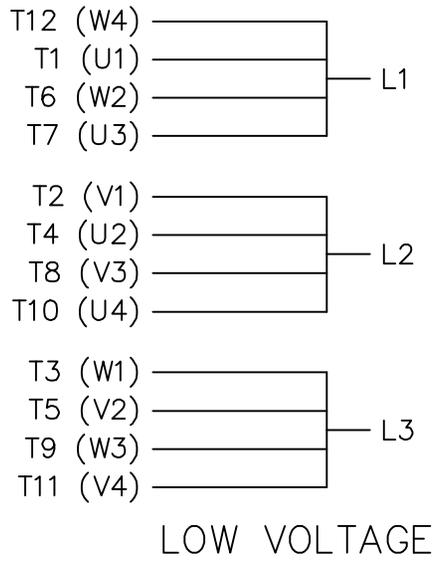


COUPLING

- (1) DIMENSIONS ARE IN INCHES.
- (2) DRIVE END BEARING 6309
OPPOSITE DRIVE END BEARING 7311B
- (3) APPROXIMATE WEIGHT = 370 LBS

- (4) END OF LINE TESTS - SPECIFIC TO EACH RATING
 - *NO LOAD AMPS @ FULL VOLTAGE
 - *NO LOAD WATTS @ FULL VOLTAGE
 - *VIBRATION MEETS MG-1 STANDARD
 - BALANCE 0.15 IN/S 3.8 MM/S

				TOLERANCES UNLESS SPECIFIED		REGAL REGAL-BELOIT CORPORATION		DRAWN	
				DEC.	INCHES			CHK	APPD
				.X	±.1	TITLE OUTLINE 254/256TP12 FRAME		SCALE	
B	UPDATED PER MARK-UPS	ECO-0151417	WGJ 9-7-2018	AL .XXX	±.005			REF	
A	RELEASED FOR PRODUCTION	ECO-0125213	WGJ 6-13-2017	AL .XXXX	±.0005	MAT'L.		FMF	
NO.	REVISION	BY & DATE	CHK	ANG	±7'30"	FINISH		PREV	
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE		SIZE	DRAWING NO.	REV.
				DIST			B	SS620835	B



VIEW OF TERMINAL END

				TOLERANCES UNLESS SPECIFIED		MARATHON ELECTRIC	DRAWN KL 02-05-1999		
				DEC.	INCHES		CHK DJK 02-05-1999		
				.X	± -	TITLE CONNECTION DIAGRAM 12 LEADS - 3 PHASE - 2/1 DELTA	APPD DJK 02-05-1999	SCALE 1=1	
				.XX	± -		REF		
2	ADDED IEC MARKINGS	MU110339	MSG 10-15-2012	SJW .XXX	± -	MAT'L.	FMF MU23624		
1	NEW DRAWING	MU23624	KL 02-05-1999	DJK .XXXX	± -		PREV		
NO.	REVISION	BY & DATE	CHK	ANG	± -	FINISH			
			RFP	02-05-1999		CAD FILE EE7308DX	SIZE A	DRAWING NO. EE7308DX	PAGE OF 2
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CERTIFICATION DATA SHEET

**P.O. BOX 8003
 WAUSAU, WI 54401-8003
 PH. 715-675-3311**

CONN. DIAGRAM: EE7308DX

MODEL #: 254VTDC6001 AA

OUTLINE: SS620835

MOUNTING: F1/F2 CAPABLE

WINDING #: TPE2542001 1

TYPICAL MOTOR PERFORMANCE DATA

HP	kW	SYNC. RPM	F.L. RPM	FRAME	ENCLOSURE	KVA CODE	DESIGN
20&15	14.9&11.2	3600	3530&2940	254TPV	WPI	G	B

PH	Hz	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB° C
3	60/50	230/460&190/380	47.5/23.7&44/22.1	PWS (LV ONLY) & YDRUN OR INV	CONTINUOUS	F	1.15/1.15	40

FULL LOAD EFF:	91&89.5	3/4 LOAD EFF:	91	1/2 LOAD EFF:	89.5	GTD. EFF	ELEC. TYPE
FULL LOAD PF:	87&86	3/4 LOAD PF:	87.5	1/2 LOAD PF:	83.5	90.2	SQ CAGE INV RATED

F.L. TORQUE	LOCKED ROTOR AMPS	L.R. TORQUE	B.D. TORQUE	F.L. RISE°C
30 LB-FT	290 / 145	61 LB-FT 200 %	90 LB-FT 300 %	40

SOUND PRESSURE @ 3 FT.	SOUND POWER	ROTOR WK^2	MAX. WK^2	SAFE STALL TIME	STARTS / HOUR	APPROX. MOTOR WGT
75 dBA	85 dBA	1.2 LB-FT^2	67 LB-FT^2	12 SEC.	1	335 LBS.

***** SUPPLEMENTAL INFORMATION *****

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE-12	STANDARD	ROUND	SHAFT DOWN	FALSE	NONE	TRUE	RODENT	BLUE (ENAMEL)

BEARINGS		GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
DE	ODE						
BALL	SINGLE ANGULAR CONTACT	POLYREX EM	TP	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON
6309	7311B						

THERMO-PROTECTORS				THERMISTORS	CONTROL	SPACE HEATERS
THERMOSTATS	PROTECTORS	WDG RTDs	BRG RTDs			
NONE	NOT	NONE	NONE	NONE	FALSE	110 VOLTS

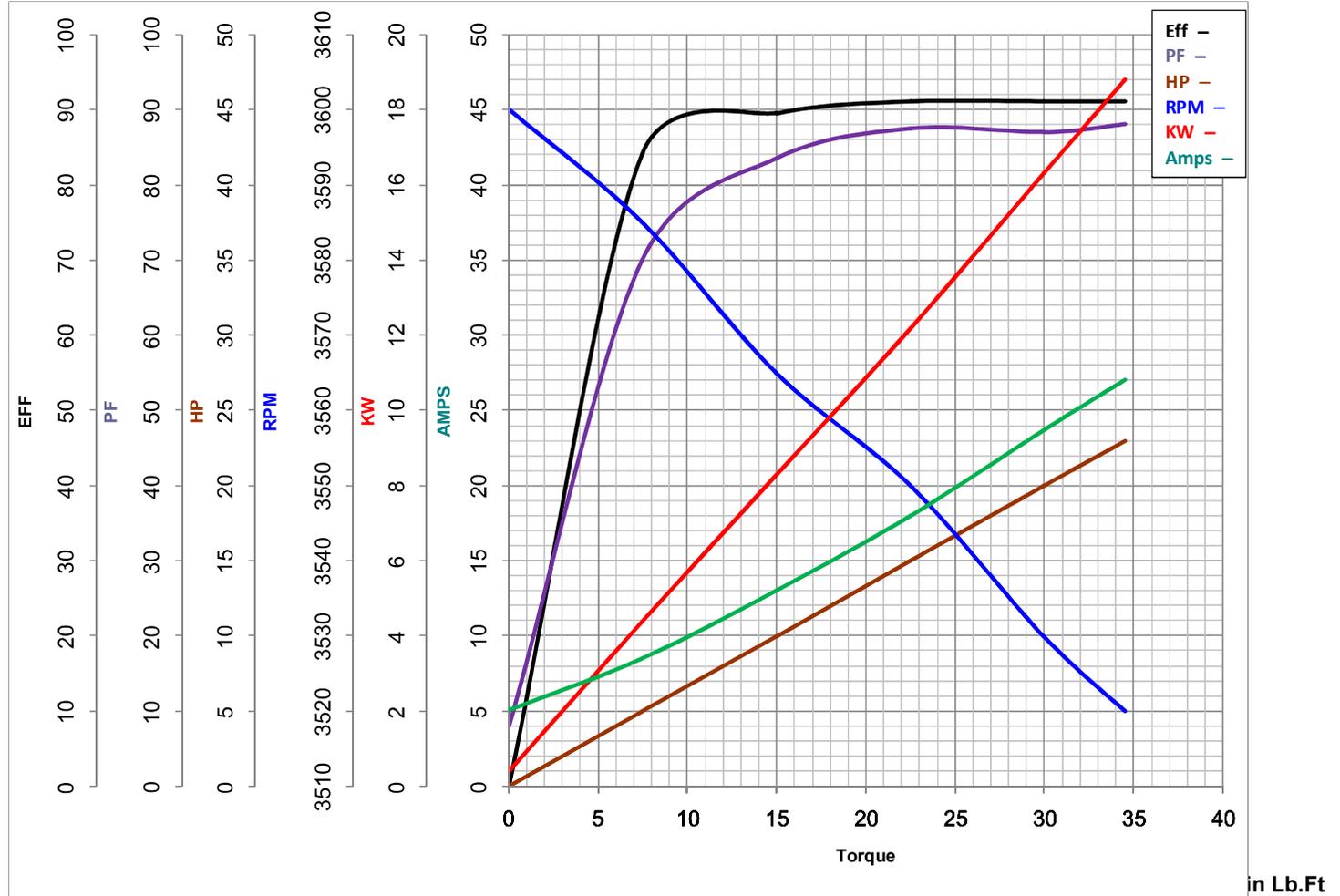
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O
T
E
S

INVERTER TORQUE: VARIABLE 3:1
INV. HP SPEED RANGE: NONE
ENCODER: NONE
NONE NONE
NONE NONE PPR
BRAKE: NONE NONE
NONE P/N NONE
NONE NONE
NONE FT-LB NONE V NONE Hz

MARATHON ELECTRIC CORPORATION

TYPICAL PERFORMANCE CURVE for AC MOTOR

Customer _____ Curve at 460 Volts HP 20&15 PHASE 3
 Model No 254VTDC6001 60 HZ
20 HP VOLTS 230/460&190/380
 Catalog No V115A HZ 60&50 RPM 3530&2940



FL TORQUE	<u>30</u>	Lb.Ft	FL AMPS	<u>47.5/23.7</u>
BD TORQUE	<u>90.0</u>	Lb.Ft	PU TORQUE	<u>52.0</u> Lb.Ft
LR TORQUE	<u>61</u>	Lb.Ft	LR AMPS	<u>145</u>
WINDING	TPE2542001-1		Date	11/5/2018