



DFG280

OWNER'S MANUAL



DFG280-5 (110V)

ITEM NO.	SPENo	DESCRIPTION	QTY.
1	5350	Main Body Plate	1
2	5351	Handle (Bottom Section)	1
3	5352	Handle (Top)	1
4	5353	Connector	1
5	5354	Adapter Plate	1
6	5356	Shroud	1
7	5357	Floating Shroud	1
8	(5358)	Shroud Edging	2
9	5359	Exhaust Bracket	1
10	5360	Motor (110V)	1
11	5361	Axle (Rear)	1
12	5362	Axle Sleeve	1
13	5363	Pivot Plate (10mm)	2
14	5364	Pivot Plate	2
15	5365	Pivot Plate Packer	2
16	5366	Clamping Bar	4
17	5367	Electrical Box Plate	1
18	5368	End Cap	2
19	5369	End Cap (with hole)	1
20	5370	Roll Pin	2
21	5371	Bearing	4
22	5372	Bearing Spacer	4
23	5373	Extraction Tube	1
24	5374	Flexi-Coupling	1
25	5375	Retaining Screw	3
26	5376	Dust Skirt (580mm)	1
27	5377	Dust Skirt (140mm)	3
28	5378	Thumb Nut	4
29	5355	T-Mag Plate	1
30	5380	Handle Grip (Back)	2
31		Handle Grip (Front)	
32	6013	Wheel (Rear)	2
33	7379	Locking Pin	2
34	9104	Handlebar Grip	2
35	BOLT022	M6x16 Hex Screw	6
36	BOLT042	M8x20 Hex Screw	2
37	BOLT043	M8x25 Hex Screw	4
38	BOLT045	M8x35 Hex Head Set Screw	4
39	BOLT166	M10 x 60 Socket Countersunk Head Screw	2
40	BOLT268	M10x60 SOK Head Screw	2
41	BOLT305	M8x10 Cup Point Grub Screw	2
42	BOLT325	M10x30 Button Head Skt Screw	4
43	BOLT326	M10x35 Button Head Skt Screw	12
44	NUT043	M6 Nyloc Nut	3
45	NUT044	M8 Nyloc Nut	4
46	NUT045	M10 Nyloc Nut	10
47	SPCG/LNM20	Cable Gland EMC	1
48	SPM1Z1701P	Enclosure	1
49	SPM1Z1740P	Stop Button	1
50	SPM1P2500	Switch	1
51	SPM1X14110	Under Voltage Coil	1
52	TI/009	Tube Insert (Black)	2
53	WASHER003	M6 Plain Washer	9
54	WASHER004	M8 Plain Washer	12
55	WASHER005	M10 Plain Washer	14
56	WASHER005	M10 Plain Washer	8
57	WASHER009	M20 Plain Washer	2
58	WASHER023	M6 Spring Washer	6
59	WASHER024	M8 Spring Washer	6
60	WASHER052	M8x30 Repair Washer	2

DFG280-3 (230V)

ITEM NO.	SPENo	DESCRIPTION	QTY.
11	5360A	Motor (230V)	1
50	SPM1P1400	Switch	1
51	SPM1X14230	Under Voltage Coil	1

DFG280-1 (415V)

ITEM NO.	SPENo	DESCRIPTION	QTY.
11	5360B	Motor (415V)	1
47	SPCG/LNM25	Cable Gland	2
50	SPM1P065	Switch	1
51	SPM1X14400	Under Voltage Coil	1

DFG280-6 (115V)

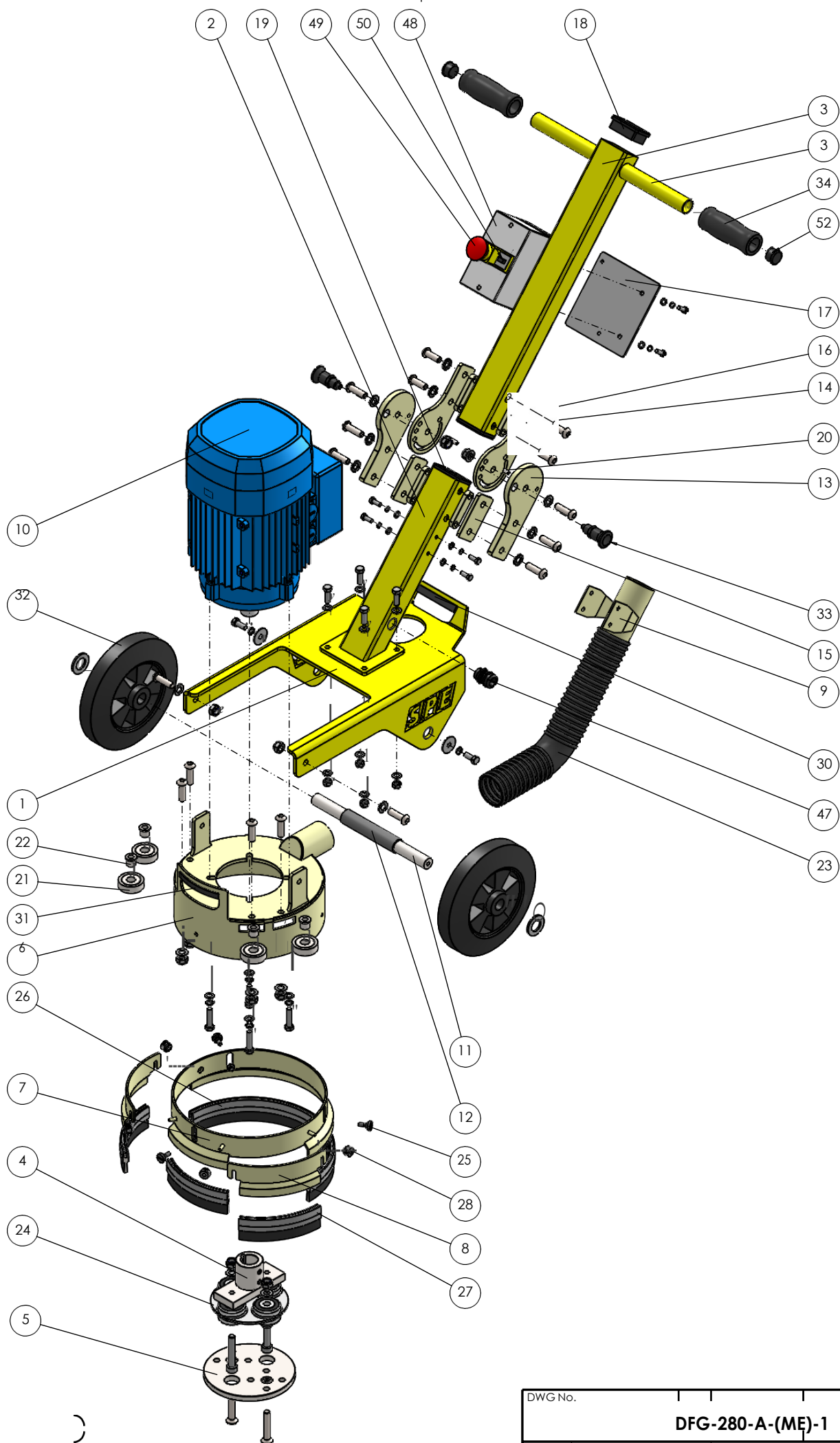
ITEM NO.	SPENo	DESCRIPTION	QTY.
4	5382	Connector	1
11	5360C	Motor (115V)	1
50	SPM1P1800	Switch	1
61	5381	Adapter Plate	1

SPM1X1702P

Enclosure Kit (Enclosure + Stop Button)

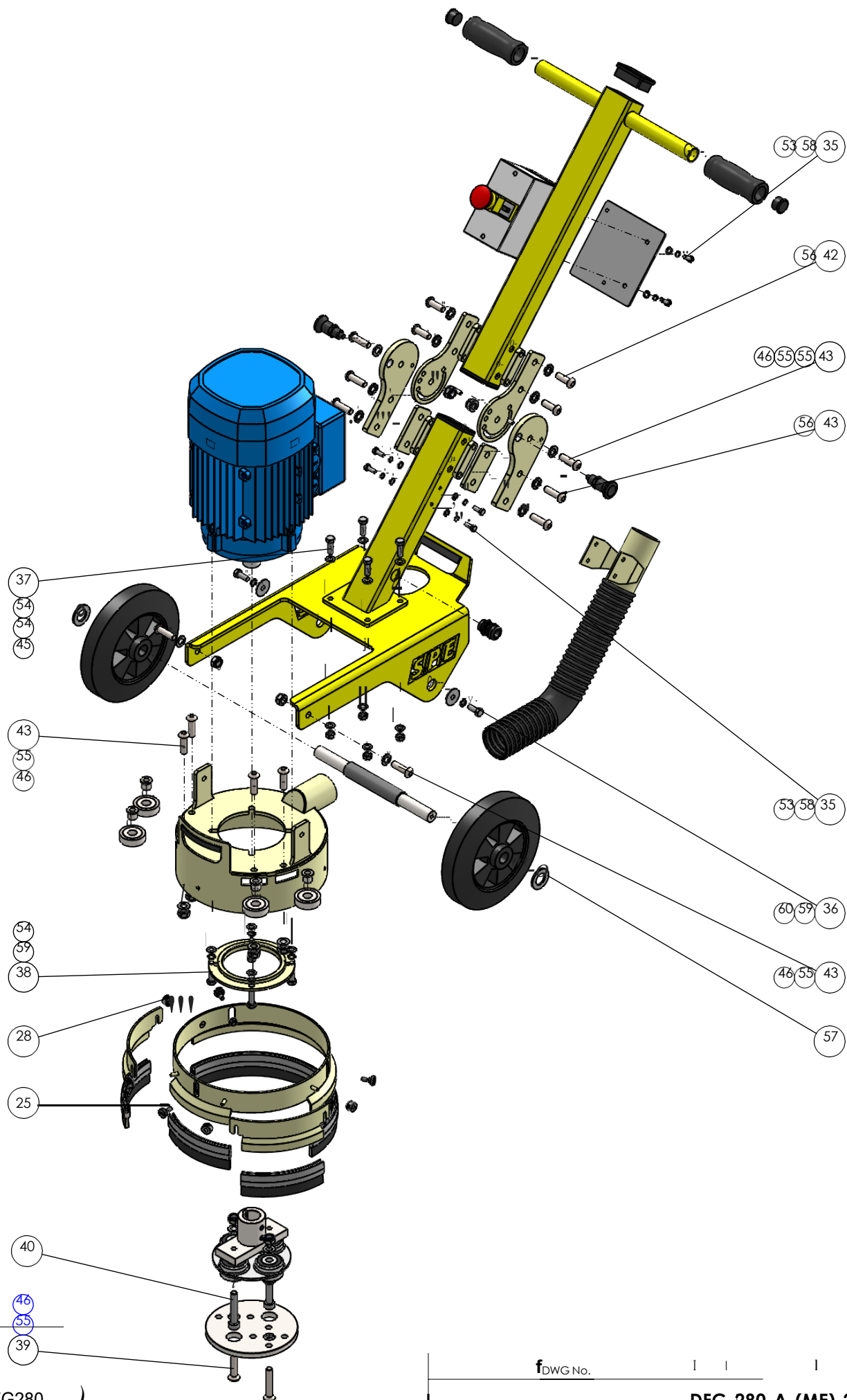
PARTS BREAKDOWN

DWG No.		DFG-280-A-(BOM)-0	
SCALE	NOT TO SCALE	SHEET	1 of 6



PARTS

DWG No.		DFG-280-A-(ME)-1	
SCALE	NOT TO SCALE	SHEET	2 of 6



DFG280

f_{DWG}No.

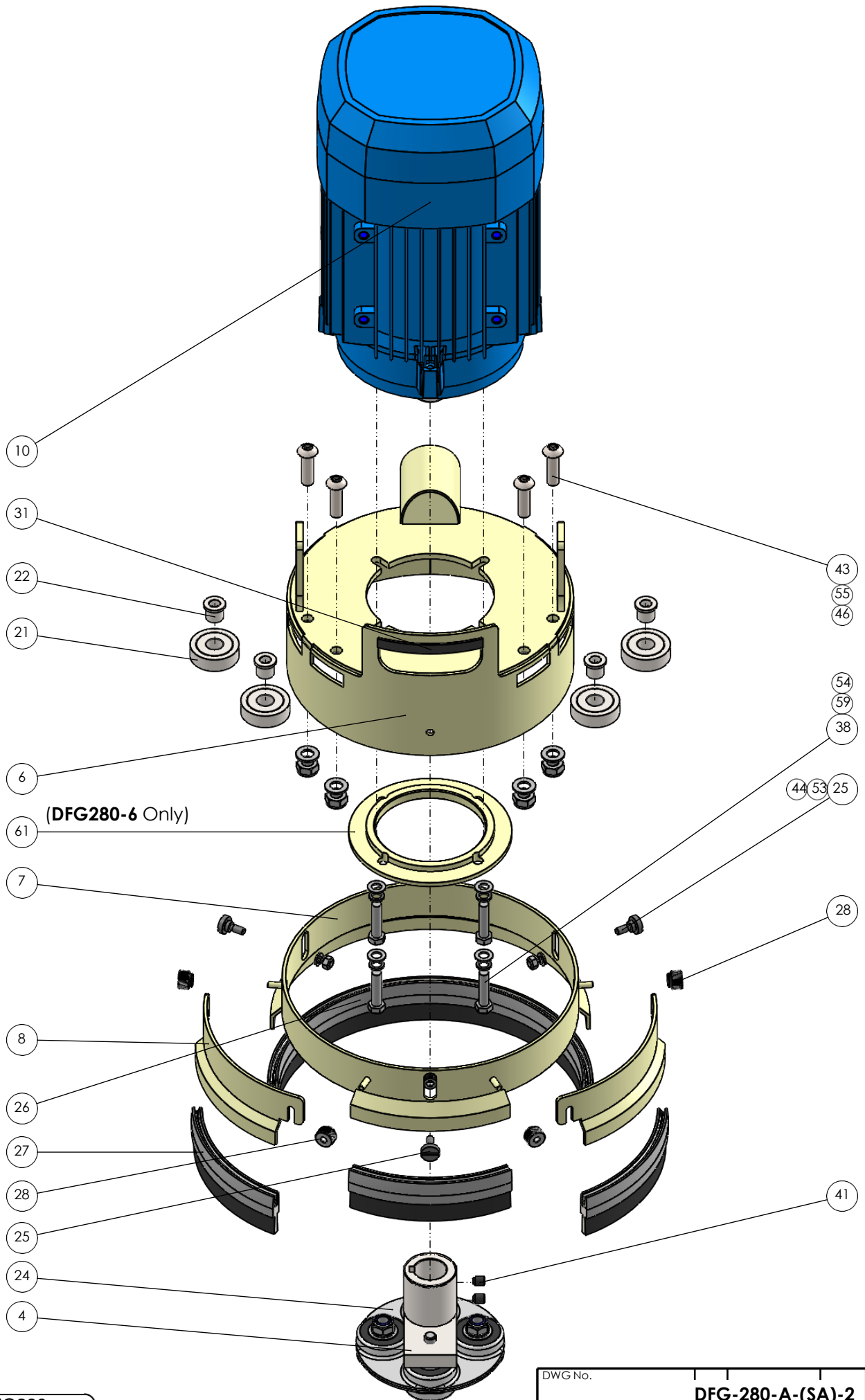
DFG-280-A-(ME)-2

FASTENERS

SCALE NOT TO SCALE

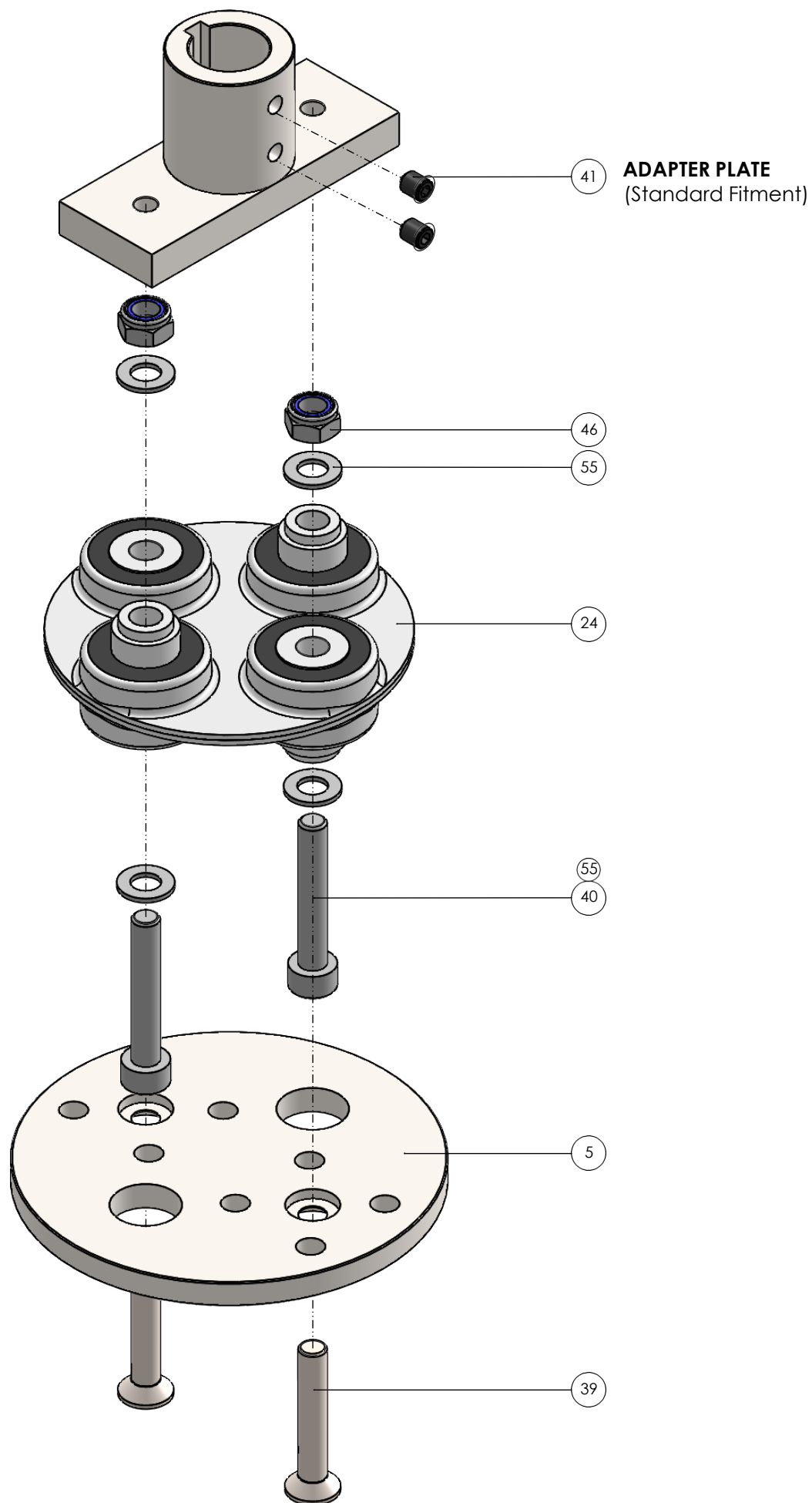
SHEET

3 of 6



DFG280

DWG No.		DFG-280-A-(SA)-2		HEAD
SCALE	NOT TO SCALE	SHEET		4 of 6



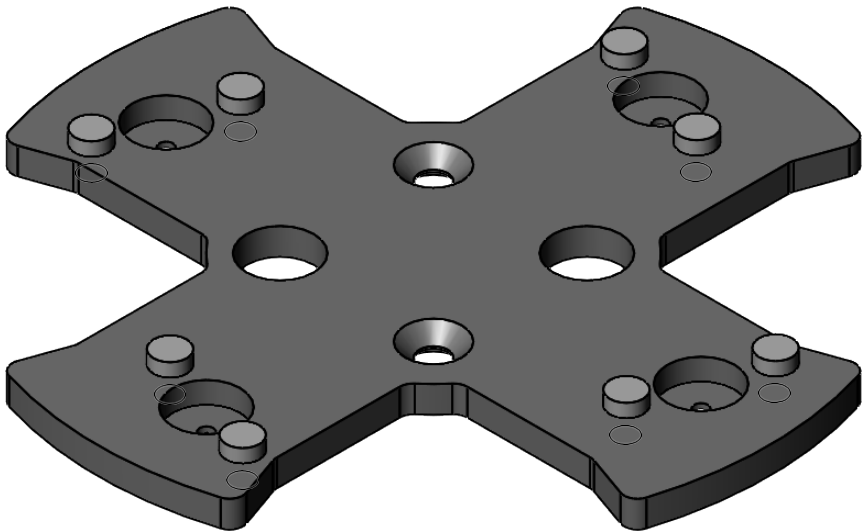
DFG280

DWG No.		DFG-280-A-(SA)-3		COUPLING
SCALE	NOT TO SCALE	SHEET		5 of 6

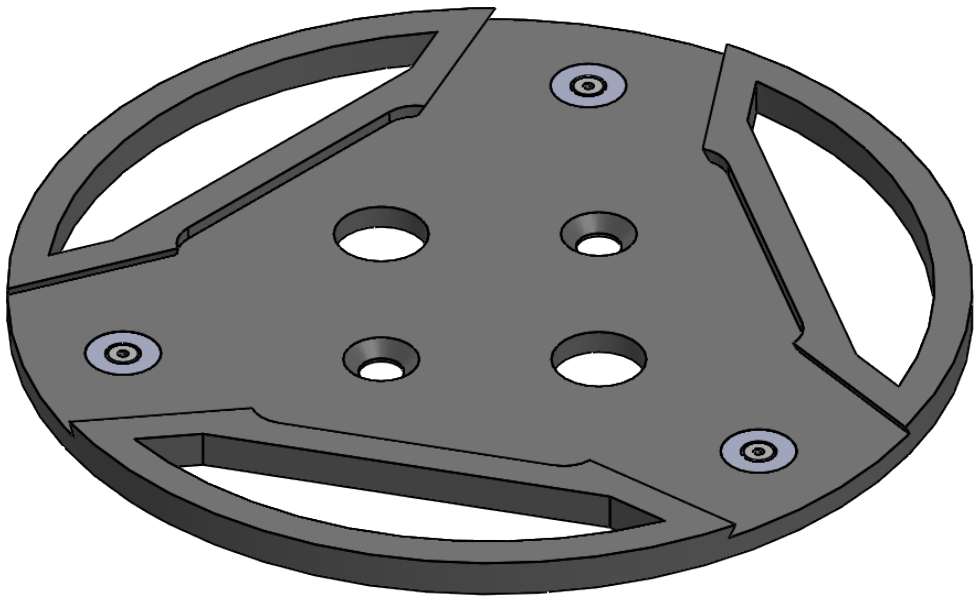
OPTIONAL TOOLING PLATES

SPENo.	DESCRIPTION
5355	T-Mag Plate
5381	Slide Mag Plate

T-MAG PLATE

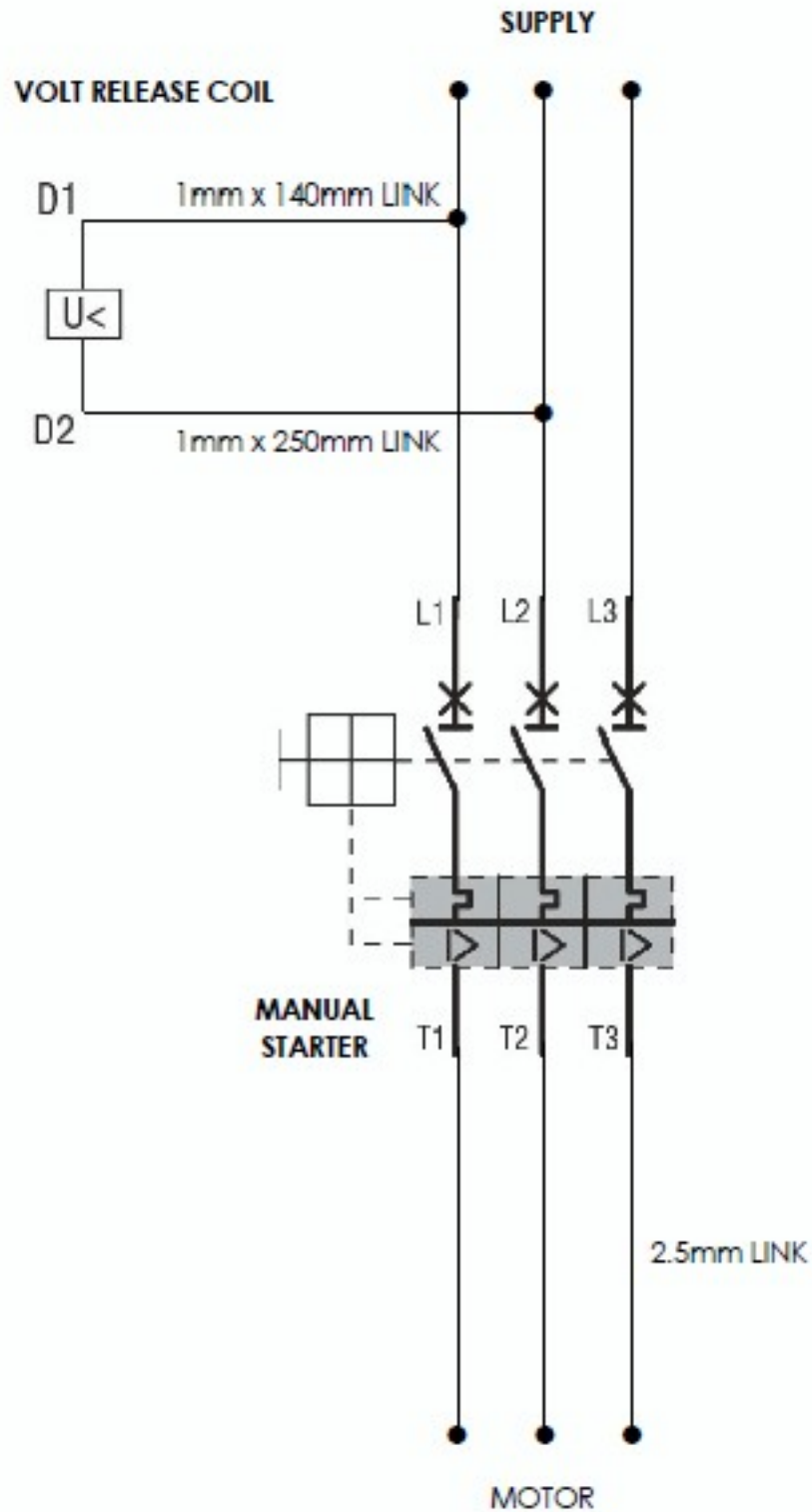


SLIDE MAG PLATE



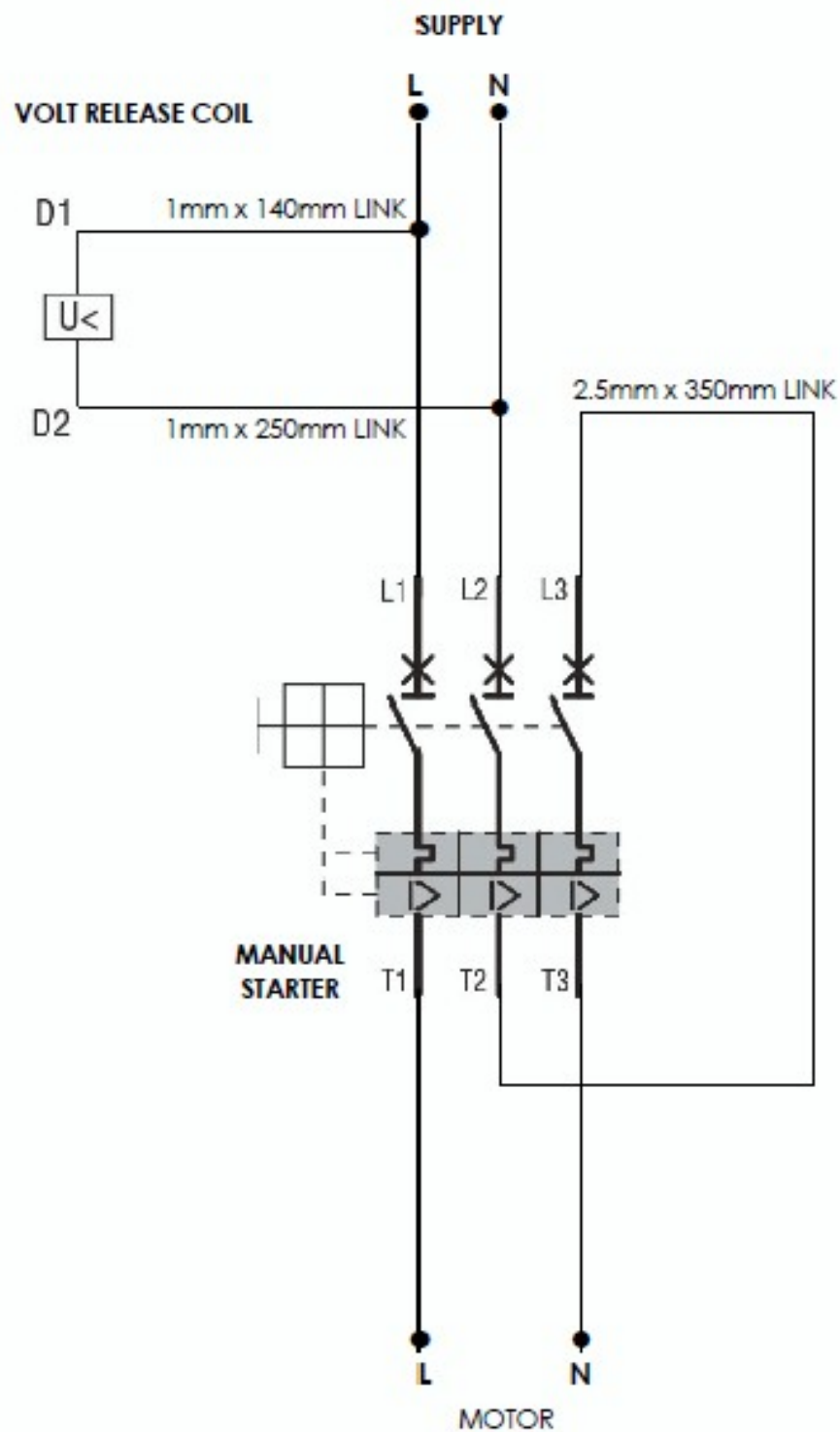
WIRING DIAGRAM

DFG280-1



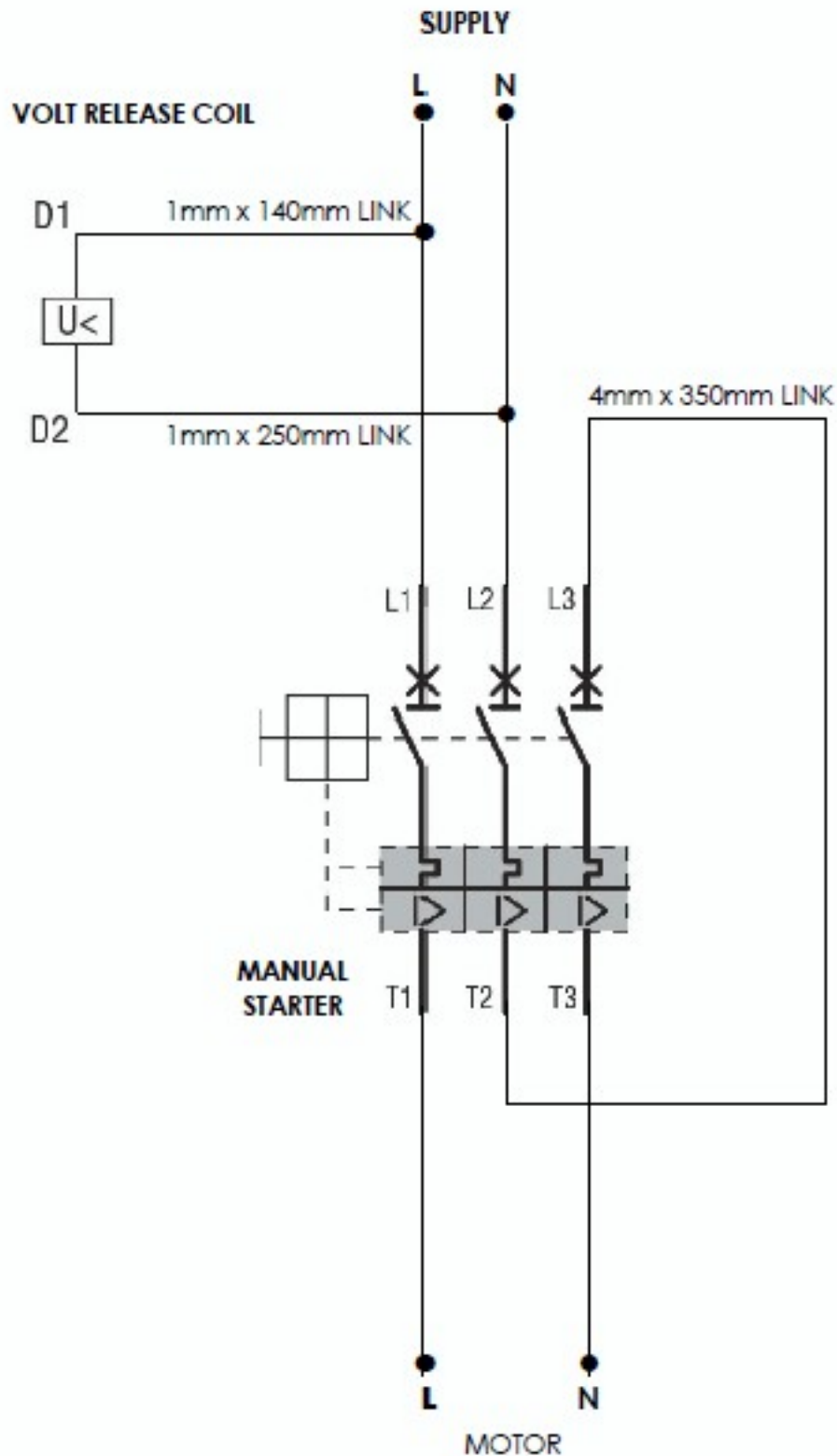
WIRING DIAGRAM

DFG280-3



WIRING DIAGRAM

DFG280-5



ELECTRICAL REQUIREMENTS

DFG280-1

Volts	Plug Size	Cable Size (mm)	Norm Cable Length	Transformer	Generator
415V	16 Amp 5 Pin	2.5 - 3 Core	30 metres	-	8 kva

DFG280-3

Volts	Plug Size	Cable Size (mm)	Norm Cable Length	Transformer	Generator
230V	16 Amp 3 Pin	2.5 - 3 Core	30 metres	-	8 kva

DFG280-5

Volts	Plug Size	Cable Size (mm)	Norm Cable Length	Transformer	Generator
110V	32 Amp 3 Pin	4.0 - 3 Core	30 metres	5 kva	8 kva

DFG280-6

Volts	Plug Size	Cable Size (mm)	Norm Cable Length	Transformer	Generator
115V	15 Amp 3 Pin	2.5 - 3 Core	30 metres	-	8 kva

SPECIFICATION SHEET

Specifications	
DFG280-1	
Type	Electric 3 Phase
Power Output	2.2kw
Voltage	415V
Cycles	50hz/60hz
Head Speed r.p.m.	1720
Engine motor speed r.p.m.	1720
Machine Dimensions (mm)	1000 / 660* 356 940 / 550* 49
Length	
Width	
Height	
Weight (kg)	
	*With handle folded

Specifications	
DFG280-3	
Type	Electric 1 Phase
Power Output	2.2kw
Voltage	230V
Cycles	50hz
Head Speed r.p.m.	1400
Engine motor speed r.p.m.	1400
Machine Dimensions (mm)	1000 / 660* 356 940 / 550* 46.5
Length	
Width	
Height	
Weight (kg)	
	*With handle folded

Specifications	
DFG280-5	
Type	Electric 1 Phase
Power Output	2.2kw
Voltage	110V
Cycles	50hz
Head Speed r.p.m.	1400
Engine motor speed r.p.m.	1400
Machine Dimensions (mm)	
Length	1020 / 660*
Width	280
Height	940 / 560*
Weight (kg)	49
	*With handle folded

Specifications	
DFG280-6	
Type	Electric 1 Phase
Power Output	1.1kw
Voltage	115v
Cycles	60hz
Head Speed r.p.m.	1690
Engine motor speed r.p.m.	1690
Machine Dimensions (mm)	
Length	1020 / 660*
Width	280
Height	940 / 560*
Weight (kg)	49
	*With handle folded

RECORD OF NOISE AND VIBRATION ASSESSMENT

Manufacturer:	SPE
Type:	Compact Floor Grinder
Model No.	DFG280-5 Electric
Operation :	Concrete floor surface
Inserted Tool:	Diamond Plate
HAV Note:	Independent

HAND-ARM VIBRATION

Frequency Weighted Energy Equivalent Accelerations ($a_{h,w}$)

Measurement Position	Acceleration (m/s^2)			
	X axis	Y axis	Z axis	Vector Sum
Handle	1.59	2.79	1.77	3.67

NOISE LEVELS

Sound Power Level (L_{WA})

L_{WA} at Octave Band Centre Frequency (Hz)								Sound Power Level L_{WA}
63	125	250	500	1000	2000	4000	8000	
51.0	73.8	88.4	91.9	94.9	97.5	90.8	80.2	100.7

Operator's Ear

$L_{Aeq,T}$ at Octave Band Centre Frequency (Hz)								Overall Level ($L_{Aeq,T}$)	L_{Peak} dB(C)
63	125	250	500	1000	2000	4000	8000		
39.3	56.5	74.7	78.0	80.9	79.9	75.7	67.1	86.0	101.5