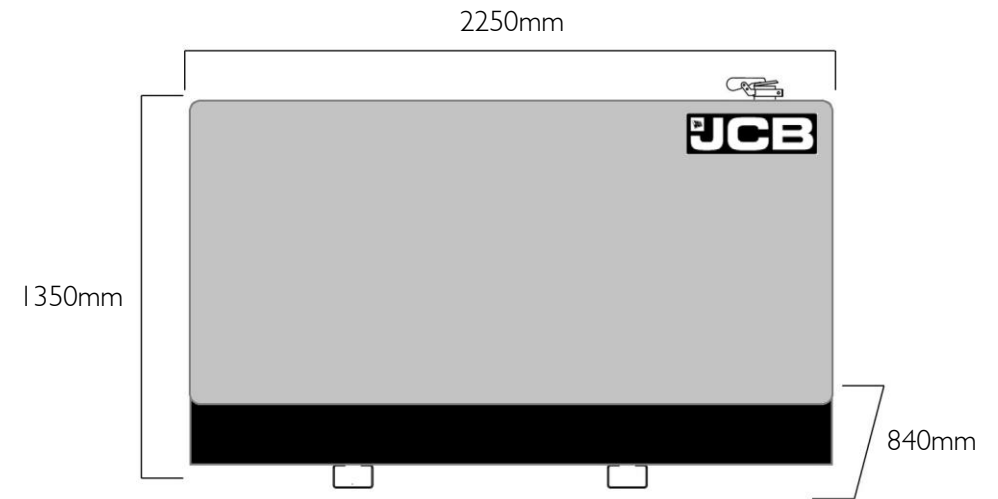


G45QS | Canopy Set



DIESEL GENERATOR

FUEL OPTIMISED

ELECTRICAL

Frequency (Hz)	Phases	Voltage (V)	Prime		Standby		MCB Rating (A)	Minimum ATP Rating (A)	Rated Speed (RPM)
			kVA	kW	kVA	kW			
50	3	400/230V	40.7	32.5	44.8	35.8	63	60	1500

POWER FACTOR

3 Phase	0.8
1 Phase	1

MAXIMUM LOAD IMPACT*

kVA	33.00
kW	26.40

*With 20% voltage and 10% frequency deviation @ 50Hz, 400V

ALL RATINGS ARE TO STANDARD REFERENCE CONDITIONS ISO 8528

Prime: This rating is for the supply of continuous electrical power, at variable load, in lieu of commercially purchase power. There is no limitation on the annual hours of operation and 10% over load power can be supplied for 1 hour in 12.

Standby: This rating is for the supply of continuous electrical power, at variable load, in the event of a utility power failure. No overload is permitted.

Stage IIIa models are only emissions compliant at 50Hz Prime Power in accordance with 97-68EC.

JCB GENERATOR TECHNICAL SPECIFICATIONS. Tel: +44 (0)1889 590312. www.jcbgenerators.com. JCB reserves the right to change specifications without notice. Illustrations shown may include optional equipment and accessories.

G45QS | Canopy Set



CANOPY/SKID

Lockable Maintenance Access Doors	•
Control Panel Viewing Window	•
Fork Pockets	Δ
Single Lift Point	Δ
Bunding	Δ
Open Frame	Δ
High Density Fire Retardant Foam	•
Yellow Paint	•
White Paint	Δ
Standard: • Not Available: x Optional: Δ	

ALTERNATOR ECP32 M 4

Poles	4
Winding Connections	Star
Insulation	Class H
Enclosure	IP23
Exciter System	Self-regulating brushless
Voltage Regulator	AVR
Steady State Voltage Regulation	+/- 1.0%
Bearing	Single bearing sealed
Coupling	Flexible disc
Cooling	Direct drive centrifugal blower fan
Coating	Winding Protection Grey

STARTING SYSTEM

Starter Motor	kW	2.00
Battery Capacity	Ah	110
Number of Batteries		1
Auxiliary Voltage	V	12

ENGINE

1500 RPM		
Output Rating (PRP)	kW	36.00
Output Rating (Standby)	kW	41.00
Manufacturer and Model		Kohler/JCB KDI 2504 TM
Fuel		Diesel
Injection		Direct
Aspiration		Turbo Charged
Cylinders		4
Bore and Stroke	mm	88 x 102
Displacement	L	2.482
Cooling		Water
Engine Oil Specification		API CH4-SAE 10W40
Compression Ratio		11.5 : 1
Engine Oil Capacity	L	11.30
Coolant Capacity	L	7.60
Governor		Mechanical
Air Filter		Single paper element
Engine Oil Consumption	100% Load	0.1 % of fuel consumed

FUEL SYSTEM

Diesel Specification		EN590
Standard Fuel Tank Capacity	L	81

G45QS | Canopy Set



FUEL CONSUMPTION

100% Load Prime	L/h	50Hz	9.68
75% Load Prime	L/h		7.84
50% Load Prime	L/h		5.64
100% Load Standby	L/h		11.00

EXHAUST SYSTEM

Maximum Temperature 100% Standby	°C	50Hz	510.00
Exhaust Gas Flow 100% Standby	m ³ /min		2.71
Maximum Allowed Back Pressure	mbar		80.00
Exhaust Flange Size	mm	51.5	

AIR SYSTEM

Intake Air Flow 100% Standby	m ³ /h	50Hz	146.00
Total Cooling Air Flow 100% Standby	m ³ /s		0.80
Alternator Fan Airflow	m ³ /s		0.20

SOUND PRESSURE (CANOPY ONLY)

LpA (7m)	50Hz	dB(A)	63
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MECHANICAL FEATURES

Cooling Pack	●
Air Filter	●
Mechanical Governor	●
Low Oil Pressure Switch	●
Coolant Temperature Sender	●
Oil Temperature Sender	●
Radiator Guards	●
Hot Component Guards	Δ
Manual Oil Drain Pump (Canopy)	Δ
Water Jacket Heater	Δ
Pre-Filter with Separator	●
Fuel Level Sender	●
Internal Fuel Fill (Belly Tank)	●
3 Way Fuel Valve	Δ
Residential Silencer	●
Industrial Silencer	x
Standard: ● Not Available: x Optional: Δ	

ELECTRICAL FEATURES

AVR DSR	●
AVR DER	x
Winding Protection Standard	x
Winding Protection Standard +	x
Winding Protection Grey	●
Winding Protection Total	Δ
Winding Protection Total +	Δ
MAUX	●
PMG	Δ
Anti-Condensation Heater	Δ
3 Pole Moulded Case Circuit Breaker	●
4 Pole Moulded Case Circuit Breaker	Δ
Earth Leakage Protection (Shunt Trip)	Δ
Preparation for Earth Spike	●
Optional Voltages	Δ
Remote Screen	Δ
Emergency Stop Button	●
External Emergency Stop Button	●
Standard: ● Not Available: x Optional: Δ	

BATTERY FEATURES

Battery Isolator	Δ
Battery Type	Lead Acid
Battery Size (Ah)	110
Number of Batteries	1
Battery Charger	Δ
Standard: ● Not Available: x Optional: Δ	

JCB COMMUNICATION AND CONTROL

4510	x
4520	●
Standard: ● Not Available: x Optional: Δ	

WEIGHT AND DIMENSIONS

Length	mm	2250
Width	mm	840
Height	mm	1350
Shipping Volume (sea ready)	m ³	2.55
Weight*	Kg	1000.00

*Standard build with all fluids except fuel

CE PACK (OPTIONAL)

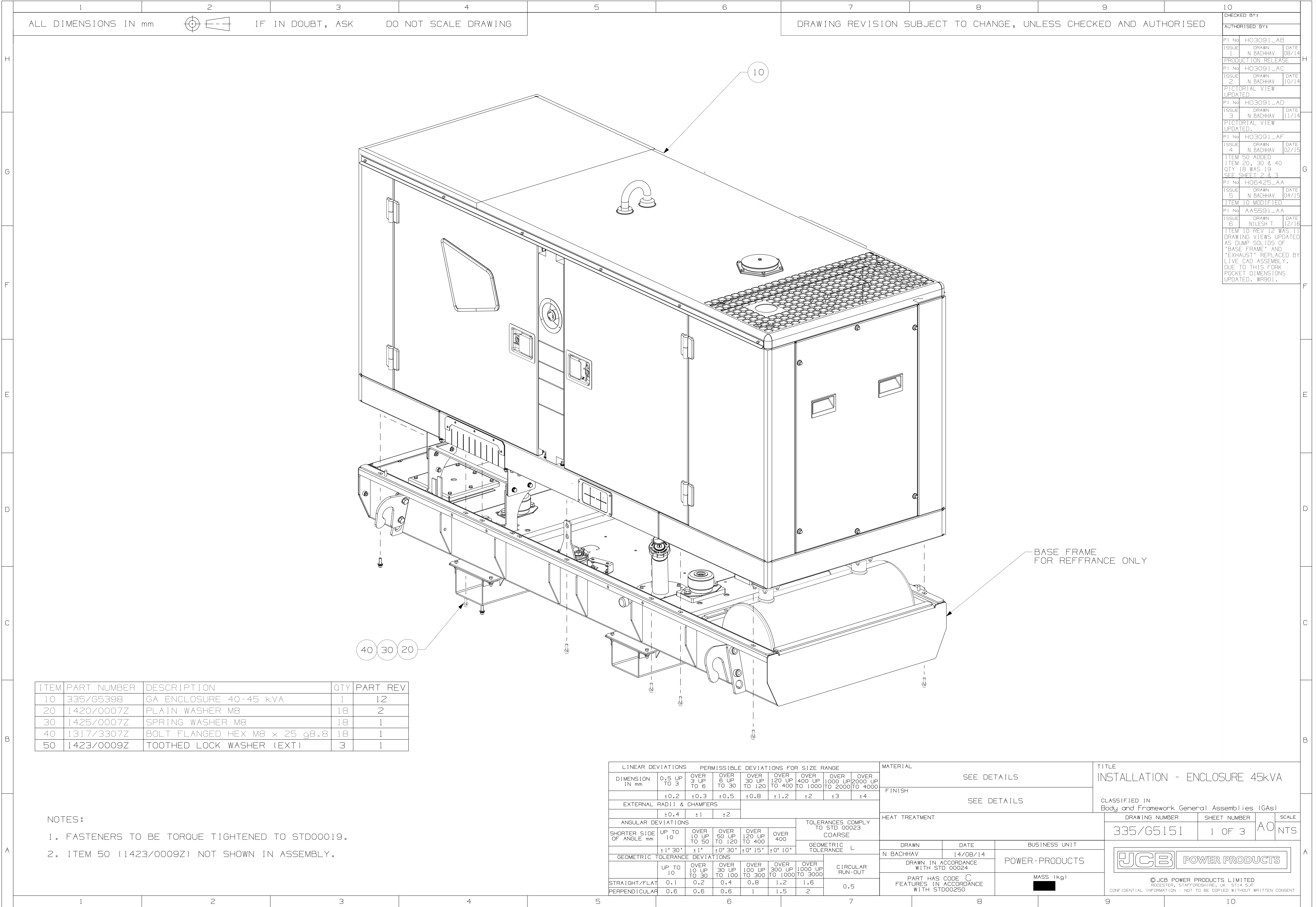
EMC Certification	●
Hot Guards	●
Belt Guards	●
Earth Leakage Relay	●
Sound Power Decal	●
EU Declaration for Engine Emissions	●
Complete Machine Declaration of Conformity	●
Standard: ● Not Available: x Optional: Δ	

REFERENCE STANDARDS

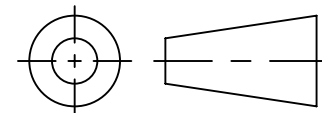
JCB Generators are CE certified and conform to the following Directives (subject to a country requiring such standard):

- EN 12100, EN13857, EN60204
- 2006/42/CE Machinery safety
- 2006/95/EC Low voltage
- 2004/108/CE Electromagnetic compatibility
- 2000/14/EC Sound Power Level (amended by 2005/88/EC)
- 97/68/EC Emissions(amended by 2002/88/EC & 2004/26/EC)
- Power according to ISO 8528 and ISO 3046
- Ambient reference conditions 1000mbar, 25°C, 30% relative humidity ISO3046

Information based on standard specification equipment unless otherwise stated.



ALL DIMENSIONS IN mm



IF IN DOUBT, ASK DO NOT SCALE DRAWING

DRAWING REVISION SUBJECT TO CHANGE, UNLESS CHECKED AND AUTHORISED

CHECKED BY:		
AUTHORISED BY:		
PI No	H03091_AB	
ISSUE	DRAWN	DATE
1	N BACHHAV	08/14
PRODUCTION RELEASE		
PI No	H03091_AC	
ISSUE	DRAWN	DATE
2	N BACHHAV	10/14
PICTORIAL VIEW UPDATED.		
PI No	H03091_AD	
ISSUE	DRAWN	DATE
3	N BACHHAV	11/14
PICTORIAL VIEW UPDATED.		
PI No	H03091_AF	
ISSUE	DRAWN	DATE
4	N BACHHAV	02/15
ITEM 50 ADDED		
ITEM 20, 30 & 40		
QTY 18 WAS 19		
SEE SHEET 2 & 3		
PI No	H06425_AA	
ISSUE	DRAWN	DATE
5	N BACHHAV	04/15
ITEM 10 MODIFIED		
PI No	AA5591_AA	
ISSUE	DRAWN	DATE
6	NILESH T	12/16
ITEM 10 REV 12 WAS 11		
DRAWING VIEWS UPDATED		
AS DUMP SOLIDS OF		
'BASE FRAME' AND		
'EXHAUST' REPLACED BY		
LIVE CAD ASSEMBLY.		
DUE TO THIS FORK		
POCKET DIMENSIONS		
UPDATED. WR901.		

ITEM	PART NUMBER	DESCRIPTION	QTY	PART REV
10	335/G5398	GA ENCLOSURE 40-45 kVA	1	12
20	1420/0007Z	PLAIN WASHER M8	18	2
30	1425/0007Z	SPRING WASHER M8	18	1
40	1317/3307Z	BOLT FLANGED HEX M8 x 25 g8.8	18	1
50	1423/0009Z	TOOTHED LOCK WASHER (EXT)	3	1

- NOTES:
- FASTENERS TO BE TORQUE TIGHTENED TO STD00019.
 - ITEM 50 (1423/0009Z) NOT SHOWN IN ASSEMBLY.

LINEAR DEVIATIONS										PERMISSIBLE DEVIATIONS FOR SIZE RANGE										MATERIAL		TITLE							
DIMENSION IN mm		0.5 UP TO 3		OVER 3 UP TO 6		OVER 6 UP TO 30		OVER 30 UP TO 120		OVER 120 UP TO 400		OVER 400 UP TO 1000		OVER 1000 UP TO 2000		OVER 2000 UP TO 4000		SEE DETAILS		INSTALLATION - ENCLOSURE 45kVA									
		±0.2		±0.3		±0.5		±0.8		±1.2		±2		±3		±4		FINISH		CLASSIFIED IN									
EXTERNAL RADI & CHAMFERS																						Body and Framework General Assemblies (GAs)							
		±0.4		±1		±2												SEE DETAILS											
ANGULAR DEVIATIONS																				HEAT TREATMENT									
SHORTER SIDE OF ANGLE mm		UP TO 10		OVER 10 UP TO 50		OVER 50 UP TO 120		OVER 120 UP TO 400		OVER 400		TOLERANCES COMPLY TO STD 00023										DRAWING NUMBER		SHEET NUMBER		SCALE			
		±1° 30'		±1°		±0° 30'		±0° 15'		±0° 10'		COARSE										335/G5151		1 OF 3		A0 NTS			
GEOMETRIC TOLERANCE DEVIATIONS																													
		UP TO 10		OVER 10 UP TO 30		OVER 30 UP TO 100		OVER 100 UP TO 300		OVER 300 UP TO 1000		OVER 1000 UP TO 3000		CIRCULAR RUN-OUT															
STRAIGHT/FLAT		0.1		0.2		0.4		0.8		1.2		1.6		0.5										DRAWN		DATE		BUSINESS UNIT	
PERPENDICULAR		0.6		0.6		0.6		1		1.5		2												N BACHHAV		14/08/14		POWER-PRODUCTS	
																						DRAWN IN ACCORDANCE WITH STD 00024							
																						PART HAS CODE C FEATURES IN ACCORDANCE WITH STD00250		MASS (kg)					

1

2

3

4

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7

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10

ALL DIMENSIONS IN mm

IF IN DOUBT, ASK

DO NOT SCALE DRAWING

DRAWING REVISION SUBJECT TO CHANGE, UNLESS CHECKED AND AUTHORISED

10

CHECKED BY:

AUTHORISED BY:

PI No: H03091_AF

ISSUE 4

DRAWN N BACHHAV

DATE 03/15

SHEET ADDED

PI No: H06425_AA

ISSUE 5

DRAWN N BACHHAV

DATE 04/15

SEE SHEET 1

PI No: AA5591_AA

ISSUE 6

DRAWN NILESH T

DATE 12/16

SEE SHEET 1, WR901

ALTERNATOR END

ALTERNATOR END

RADIATOR END

RADIATOR END

TOP VIEW (BASE FRAME ONLY)

LINEAR DEVIATIONS										PERMISSIBLE DEVIATIONS FOR SIZE RANGE										MATERIAL			TITLE							
DIMENSION IN mm		0.5 UP TO 3		OVER 3 UP TO 6		OVER 6 UP TO 30		OVER 30 UP TO 120		OVER 120 UP TO 400		OVER 400 UP TO 1000		OVER 1000 UP TO 2000		OVER 2000 UP TO 4000		SEE DETAILS			INSTALLATION - ENCLOSURE 45kVA									
		±0.2		±0.3		±0.5		±0.8		±1.2		±2		±3		±4		SEE DETAILS			CLASSIFIED IN									
EXTERNAL RADII & CHAMFERS																				HEAT TREATMENT			Body and Framework General Assemblies (GAs)							
ANGULAR DEVIATIONS																				TOLERANCES COMPLY TO STD 00023 COARSE			DRAWING NUMBER		SHEET NUMBER		SCALE			
SHORTER SIDE OF ANGLE mm		UP TO 10		OVER 10 UP TO 50		OVER 50 UP TO 120		OVER 120 UP TO 400		OVER 400		GEOMETRIC TOLERANCE L										335/G5151		3 OF 3		A0 NTS				
		±1° 30'		±1°		±0° 30'		±0° 15'		±0° 10'												DRAWN		DATE		BUSINESS UNIT				
		±1° 30'		±1°		±0° 30'		±0° 15'		±0° 10'												N BACHHAV		14/08/14		POWER-PRODUCTS				
GEOMETRIC TOLERANCE DEVIATIONS																				TOLERANCES COMPLY TO STD 00024			PART HAS CODE C		MASS (kg)		FEATURES IN ACCORDANCE WITH STD00250		CONFIDENTIAL INFORMATION - NOT TO BE COPIED WITHOUT WRITTEN CONSENT	
		UP TO 10		OVER 10 UP TO 30		OVER 30 UP TO 100		OVER 100 UP TO 300		OVER 300 UP TO 1000		OVER 1000 UP TO 3000		CIRCULAR RUN-OUT										DRAWN IN ACCORDANCE WITH STD 00024		ROCESTER, STAFFORDSHIRE, UK S114 5UP				
STRAIGHT/FLAT		0.1		0.2		0.4		0.8		1.2		1.6		0.5										POWER-PRODUCTS		©JCB POWER PRODUCTS LIMITED				
PERPENDICULAR		0.6		0.6		0.6		1		1.5		2												POWER-PRODUCTS		ROCESTER, STAFFORDSHIRE, UK S114 5UP				

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