





**DIESEL GENERATOR** 

**FUEL OPTIMISED** 

#### **ELECTRICAL**

		Prime Standby							
Frequency (Hz)	Phases	Voltage (V)	kVA	kW	kVA	kW	MCB Rating (A)	Minimum ATP Rating (A)	Rated Speed (RPM)
50	3	400/230V	125.0	100.0	137.5	110.0	200	200	1500
60	3	380/220V	125.0	100.0	137.5	110.0	200	200	1800
60	3	220/I27V	127.7	102.2	140.5	112.4	400	400	1800
60	3	208/120V	127.7	102.2	140.5	112.4	400	400	1800

POWER FACTOR		MAXIMUM LOAD IM	MAXIMUM LOAD IMPACT*		
3 Phase	0.8	kVA	75		
l Phase	I. I	kW	60.00		

#### \*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: Standby Power (ESP) is the maximum output available, for up to 200 hours per year, where the average load (variable) does not exceed 70% of the standby power rating. No overload is available. 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.



### **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
Four Point Lift (non CE)		Δ
Standard: • Not Availab	ble: x Optional: $\Delta$	

ALTERNATOR ECP34-M/4					
Poles	4				
Winding Connections	Star				
Insulation	Class H				
Enclosure	IP23				
Exciter System	Self-regulating brushless				
Voltage Regulator	AVR				
Steady State Voltage Regulation	+/- 1.5%				
Bearing	Single bearing sealed				
Coupling	Flexible disc				
Cooling	Direct drive centrifugal blower fan				
Coating	Winding Protection Grey				

#### **STARTING SYSTEM**

Starter Motor	kW	4.20
Battery Capacity	Ah	120
Number of Batteries		I
Auxiliary Voltage	V	12

ENGINE						
I 500 RPM						
Gross Engine Power (PRP)	kW	7.00				
Gross Engine Power (Standby)	kW	128.70				
	1800 R	PM				
Gross Engine Power (PRP)	kW	117.00				
Gross Engine Power (Standby)	kW	128.70				
Manufacturer and Model		JCB 448 G-TCA- 117				
Fuel		Diesel				
Injection		Direct				
Aspiration		Turbo Charged				
Cylinders		4				
Bore and Stroke	mm	106 x 135				
Displacement	L	4.765				
Cooling		Water				
Engine Oil Specification		API CH4-SAE 10W40				
Compression Ratio		18:1				
Engine Oil Capacity	L	14.00				
Coolant Capacity	L	18.00				
Governor		Mechanical				
Air Filter		Two stage filtration				
Engine Oil Consumption	100% Load	0.1% of fuel consumed				

FUEL SYSTEM					
Diesel Specification		EN590			
Standard Fuel Tank Capacity	L	270			

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FUEL CONSUMPTION           100% Load Prime $L/h$ 29.6           75% Load Prime $L/h$ $30Hz$ 22.40           50% Load Prime $L/h$ $30Hz$ 16.00           100% Load Standby $L/h$ $32.70$ $32.70$ 100% Load Prime $L/h$ $32.70$ $30.00$ 75% Load Prime $L/h$ $40Hz$ $22.30$ 50% Load Prime $L/h$ $31.80$ $14.50$ 100% Load Standby $L/h$ $31.80$ $31.80$ Standby $CC$ Raximum Temperature 100% Standby $m^3/min$ $50Hz$ $551.00$ Exhaust Gas Flow 100% Standby $m^3/min$ $60Hz$ $25.00$ Maximum Allowed Back Pressure         mbar $100.00$ $100.00$ Exhaust Gas Flow 100% Standby $m^3/min$ $60Hz$ $29.00$ Maximum Allowed Back Pressure         mbar $100.00$ $100.00$ Exhaust Flange Size         mbar $614.00$ $100.00$ Exhaust Flange Size         mm $614.00$ $3.26$				
75% Load PrimeL/h22.4050% Load PrimeL/h50Hz16.00100% Load StandbyL/h32.70100% Load PrimeL/h32.70100% Load PrimeL/h60Hz5% Load PrimeL/h14.50100% Load StandbyL/h31.8050% Load PrimeL/h31.80100% Load StandbyC551.00100% Load StandbyMaximum Temperature 100% Standby50Hz551.00Exhaust Gas Flow 100% StandbyMaximin50Hz25.00Maximum Temperature 100% StandbyOC25.00100.00Maximum Allowed Back Pressurembar60Hz29.00Maximum Allowed Back Pressurembar60Hz29.00Maximum Allowed Back Pressurembar60Hz29.00Intake Air Flow 100% StandbyKg/h50Hz3.26Intake Air Flow 100% Standbym³/s614.00Total Cooling Air Flow 100% Standbym³/s50HzIntake Air Flow 100% Standbym³/s50Hz3.26Intake Air Flow 100% Standbym³/s50Hz3.26Intake Air Flow 100% Standbym³/s50Hz3.26Intake Air Flow 100% Standbym³/s50Hz3.26Intake Air Flow 100% Standbym³/s60Hz0.32Intake Air Flow 100% StandbyKg/h690.00	FUEL CONSUMPTION			
Solve Load PrimeL/hSoHz16.0050% Load PrimeL/h32.70100% Load StandbyL/h30.0075% Load PrimeL/h60Hz50% Load PrimeL/h14.50100% Load StandbyL/h31.80EXHAUST SYSTEMMaximum Temperature 100% Standby $^{\circ}C$ Exhaust Gas Flow 100% Standbym <sup>3</sup> /min50HzMaximum Allowed Back Pressurembar100.00Maximum Allowed Back Pressurembar60HzExhaust Gas Flow 100% Standby $^{\circ}C$ 460Exhaust Gas Flow 100% Standbym <sup>3</sup> /min60Hz100.00100.00100.00Maximum Allowed Back PressurembarExhaust Gas Flow 100% Standbym <sup>3</sup> /minMaximum Allowed Back PressurembarIntake Air Flow 100% StandbyKg/hIntake Air Flow 100% Standbym <sup>3</sup> /sIntake Air Flow 100% Standbym <sup>3</sup> /sIntake Air Flow 100% Standbym <sup>3</sup> /sIntake Air Flow 100% Standbym <sup>3</sup> /s100.0050Hz2003.26100.013.26100.02m <sup>3</sup> /s100.0350Hz100.043.26100.0510.32100.0610.32100.0710.32100.0810.32100.0810.32100.0910.32100.0910.32100.0910.32100.0910.32100.0910.32100.0910.32 <t< td=""><td>100% Load Prime</td><td>L/h</td><td></td><td>29.6</td></t<>	100% Load Prime	L/h		29.6
50% Load PrimeL/h16.00100% Load StandbyL/h32.70100% Load PrimeL/h30.0075% Load PrimeL/h22.3050% Load PrimeL/h14.50100% Load StandbyL/h31.80EXHAUST SYSTEMMaximum Temperature 100% Standby $^{O}C$ $_{PAH}$ Maximum Temperature 100% Standby $^{O}C$ $_{25.00}$ Khaust Gas Flow 100% Standby $^{O}C$ $_{25.00}$ Maximum Temperature 100% Standby $^{O}C$ $_{460}$ Khaust Gas Flow 100% Standby $^{O}C$ $_{29.00}$ Maximum Allowed Back Pressurembar100.00Maximum Allowed Back Pressurembar $_{60Hz}$ 100.00 $_{29.00}$ 100.00Kahaust Gas Flow 100% Standbym <sup>3</sup> min $_{60Hz}$ 100.00 $_{75haust Flange Size}$ mmMaximum Allowed Back PressurembarIntake Air Flow 100% StandbyKg/h1010.00 $_{75haust Flange Size}$ Intake Air Flow 100% Standby $_{73/s}$ $(@ 20 mm H_2 O Canopy Depression)$ $m^3/s$ Alternator Fan Airflow $m^3/s$ Alternator Fan Airflow $m^3/s$ $(0.32)$ $(690.00)$	75% Load Prime	L/h		22.40
100% Load PrimeL/h30.0075% Load PrimeL/h $60$ Hz22.3050% Load PrimeL/h14.50100% Load StandbyL/h31.80 <b>EXHAUST SYSTEM</b> Maximum Temperature 100% Standby $^{O}$ C $_{A}$ Exhaust Gas Flow 100% Standbym <sup>3</sup> /min50Hz551.00Exhaust Gas Flow 100% Standby $^{O}$ C $_{A}$ 460Exhaust Gas Flow 100% Standby $^{O}$ C $_{A}$ 460Exhaust Gas Flow 100% Standbym <sup>3</sup> /min60Hz29.00Maximum Allowed Back Pressurembar100.00Maximum Allowed Back Pressurembar60Hz29.00Maximum Allowed Back Pressurembar60Hz29.00Intake Air Flow 100% StandbyKg/h50Hz3.26(@ 20 mm H <sub>2</sub> O Canopy Depression)m <sup>3</sup> /s50Hz3.26Alternator Fan Airflowm <sup>3</sup> /s50Hz3.26Intake Air Flow 100% StandbyKg/h0.320.32Intake Air Flow 100% StandbyKg/h690.00	50% Load Prime	L/h	JUHZ	16.00
75% Load PrimeL/h60Hz22.3050% Load PrimeL/h14.50100% Load StandbyL/h31.80EXHAUST SYSTEMMaximum Temperature 100% Standby $^{O}C$ $_{A}A$ Exhaust Gas Flow 100% Standby $^{O}C$ $_{A}A$ 551.00Exhaust Gas Flow 100% Standby $^{O}C$ $_{A}A$ 460Maximum Temperature 100% Standby $^{O}C$ $_{A}A$ 460Exhaust Gas Flow 100% Standby $^{O}C$ $_{A}A$ 460Exhaust Gas Flow 100% Standby $^{M}min$ $_{O}C$ $_{A}A$ 460Exhaust Gas Flow 100% Standby $^{M}min$ $_{O}C$ $_{A}A$ 460Exhaust Flange Sizembar $_{O}C$ $_{A}A$ $_{O}OO$ Intake Air Flow 100% StandbyKg/h $_{O}A$ $_{S}2A$ $_{O}A$ Intake Air Flow 100% Standby $m^3/s$ $_{O}A$ $_{O}A$ $_{O}A$ Intake Air Flow 100% Standby $m^3/s$ $_{O}A$ $_{O}A$ $_{O}A$ Intake Air Flow 100% Standby $m^3/s$ $_{O}A$ $_{O}A$ $_{O}A$ Intake Air Flow 100% Standby $m^3/s$ $_{O}A$ $_{O}A$ $_{O}A$ Intake Air Flow 100% Standby $Kg/h$ $_{O}A$ $_{O}A$ $_{O}A$ Intake Air Flow 100% Standby $Kg/h$ $_{O}A$ $_{O}A$ $_{O}A$ Intake Air Flow 100% Standby $Kg/h$ $_{O}A$ $_{O}A$ $_{O}A$ Intake Air Flow 100% Standby $Kg/h$ $_{O}A$ $_{O}A$ $_{O}A$ Intake Air Flow 100% Standby $Kg/h$	100% Load Standby	L/h		32.70
50% Load PrimeL/h60Hz14.5050% Load PrimeL/h14.50100% Load StandbyL/h31.80EXHAUST SYSTEMMaximum Temperature 100% Standby $^{O}C$ $_{APA}$ Exhaust Gas Flow 100% Standby $m^{3}$ min50Hz25.00Maximum Allowed Back Pressurembar100.00Maximum Temperature 100% Standby $^{O}C$ $_{APA}$ 460Exhaust Gas Flow 100% Standby $^{O}C$ $_{APA}$ 460Exhaust Gas Flow 100% Standbym $^{3}$ min60Hz29.00Maximum Allowed Back Pressurembar100.00100.00Exhaust Flange Sizemmar64.529.00Intake Air Flow 100% StandbyKg/h50Hz3.26Intake Air Flow 100% Standbym $^{3}$ /s50Hz3.26Alternator Fan Airflowm $^{3}$ /s0.323.26Intake Air Flow 100% StandbyKg/h690.00	100% Load Prime	L/h		30.00
50% Load PrimeL/h14.50100% Load StandbyL/h31.80EXHAUST SYSTEMMaximum Temperature 100% Standby $^{O}C$ $_{Amage Standby}$ 551.00Exhaust Gas Flow 100% Standbym³/min50Hz25.00Maximum Allowed Back Pressurembar100.00Maximum Temperature 100% Standby $^{O}C$ 460Exhaust Gas Flow 100% Standby $^{O}C$ 460Exhaust Gas Flow 100% Standbym³/min60HzExhaust Gas Flow 100% Standbym³/min60HzMaximum Allowed Back Pressurembar100.00Maximum Allowed Back Pressurembar614.00Exhaust Flange Sizemm64.5AIR SYSTEM50Hz3.26Intake Air Flow 100% Standbym³/s50HzIntake Air Flow 100% Standbym³/s0.32Intake Air Flow 100% StandbyKg/h0.32Intake Air Flow 100% StandbyKg/h690.00	75% Load Prime	L/h	40U <del>7</del>	22.30
EXHAUST SYSTEM $^{\circ}$ C51.00Maximum Temperature 100% Standby $^{\circ}$ C $^{\circ}$ SOHz $^{\circ}$ S51.00Exhaust Gas Flow 100% Standby $^{\circ}$ Minin $^{\circ}$ SOHz $^{\circ}$ SOHz $^{\circ}$ S51.00Maximum Allowed Back Pressurembar100.00100.00Maximum Temperature 100% Standby $^{\circ}$ C $^{\circ}$ C $^{\circ}$ A60Exhaust Gas Flow 100% Standby $^{\circ}$ C $^{\circ}$ A6029.00Maximum Allowed Back Pressurembar60Hz29.00Maximum Allowed Back Pressurembar100.00100.00Exhaust Flange Sizemm64.5100.00Intake Air Flow 100% StandbyKg/h $^{\circ}$ S0Hz3.26Intake Air Flow 100% Standbym <sup>3</sup> /s50Hz3.26(@ 20 mm H <sub>2</sub> 0 Canopy Depression)m <sup>3</sup> /s50Hz690.00Alternator Fan Airflowm <sup>3</sup> /s690.000.32Intake Air Flow 100% StandbyKg/h690.000.32	50% Load Prime	L/h		14.50
Maximum Temperature 100% Standby $^{\circ}$ C551.00Exhaust Gas Flow 100% Standbym <sup>3</sup> /min50Hz25.00Maximum Allowed Back Pressurembar100.00Maximum Temperature 100% Standby $^{\circ}$ C460Exhaust Gas Flow 100% Standbym <sup>3</sup> /min60Hz29.00Maximum Allowed Back Pressurembar100.00Maximum Allowed Back Pressurembar100.00Exhaust Gas Flow 100% Standbym <sup>3</sup> /min60Hz29.00Maximum Allowed Back Pressurembar100.00Exhaust Flange Sizemm64.5Intake Air Flow 100% StandbyIntake Air Flow 100% StandbyKg/h50HzQ 20 mm H <sub>2</sub> 0 Canopy Depression)m <sup>3</sup> /s50HzAlternator Fan Airflowm <sup>3</sup> /s0.32Intake Air Flow 100% StandbyKg/h690.00	100% Load Standby	L/h		31.80
Exhaust Gas Flow 100% Standby $m^{3'}$ min50 Hz25.00Maximum Allowed Back Pressurembar100.00Maximum Temperature 100% Standby $^{O}$ C460Exhaust Gas Flow 100% Standby $m^{3'}$ min60 Hz29.00Maximum Allowed Back Pressurembar100.00Maximum Allowed Back Pressurembar60 Hz29.00Maximum Allowed Back Pressurembar60 Hz29.00Intake Air Flange Sizemm64.5100.00Intake Air Flow 100% StandbyKg/h614.00Total Cooling Air Flow 100% Standbym <sup>3</sup> /s50 Hz3.26(@ 20 mm H <sub>2</sub> 0 Canopy Depression)m <sup>3</sup> /s0.320.32Intake Air Flow 100% StandbyKg/h690.00690.00	EXHAUST SYSTEM			
Maximum Allowed Back Pressurembar100.00Maximum Temperature 100% Standby°C460Exhaust Gas Flow 100% Standbym³/min60Hz29.00Maximum Allowed Back Pressurembar100.00Exhaust Flange Sizemm64.5AIR SYSTEMIntake Air Flow 100% StandbyKg/hTotal Cooling Air Flow 100% Standbym³/s50Hz(@ 20 mm H <sub>2</sub> 0 Canopy Depression)m³/s50HzAlternator Fan Airflowm³/s0.32Intake Air Flow 100% StandbyKg/h690.00	Maximum Temperature 100% Standby	°C		551.00
Maximum Temperature 100% Standby°C460Exhaust Gas Flow 100% Standbym³/min60Hz29.00Maximum Allowed Back Pressurembar100.00Exhaust Flange Sizemm64.5AIR SYSTEMIntake Air Flow 100% StandbyKg/h614.00Total Cooling Air Flow 100% Standbym³/s50Hz3.26(@ 20 mm H20 Canopy Depression)m³/s0.320.32Intake Air Flow 100% StandbyKg/h690.00690.00	Exhaust Gas Flow 100% Standby	m <sup>3/</sup> min	50Hz	25.00
Exhaust Gas Flow 100% Standbym³/min60Hz29.00Maximum Allowed Back Pressurembar100.00Exhaust Flange Sizemm64.5AIR SYSTEMIntake Air Flow 100% StandbyKg/h614.00Total Cooling Air Flow 100% Standbym³/s50Hz3.26(@ 20 mm H <sub>2</sub> 0 Canopy Depression)m³/s0.320.32Intake Air Flow 100% StandbyKg/h690.00690.00	Maximum Allowed Back Pressure	mbar		100.00
Maximum Allowed Back Pressurembar100.00Exhaust Flange Sizemm64.5AIR SYSTEMIntake Air Flow 100% StandbyKg/h614.00Total Cooling Air Flow 100% Standbym³/s50Hz3.26(@ 20 mm H20 Canopy Depression)m³/s0.320.32Intake Air Flow 100% StandbyKg/h690.00690.00	Maximum Temperature 100% Standby	°C		460
Exhaust Flange Sizemm64.5AIR SYSTEMIntake Air Flow 100% StandbyKg/h614.00Total Cooling Air Flow 100% Standby (@ 20 mm H20 Canopy Depression)m³/s50Hz3.26Alternator Fan Airflowm³/s0.320.32Intake Air Flow 100% Standby Kg/hKg/h690.00	Exhaust Gas Flow 100% Standby	m <sup>3/</sup> min	60Hz	29.00
AIR SYSTEM     Kg/h     614.00       Intake Air Flow 100% Standby     m³/s     50Hz     3.26       (@ 20 mm H <sub>2</sub> 0 Canopy Depression)     m³/s     0.32       Alternator Fan Airflow     Kg/h     690.00	Maximum Allowed Back Pressure	mbar		100.00
Intake Air Flow 100% StandbyKg/h614.00Total Cooling Air Flow 100% Standby (@ 20 mm H20 Canopy Depression)m³/s50Hz3.26Alternator Fan Airflowm³/s0.32Intake Air Flow 100% Standby Kg/hKg/h690.00	Exhaust Flange Size	mm	64.5	
Total Cooling Air Flow 100% Standby (@ 20 mm H20 Canopy Depression)m³/s50Hz3.26Alternator Fan Airflowm³/s0.32Intake Air Flow 100% StandbyKg/h690.00	AIR SYSTEM			
(@ 20 mm H20 Canopy Depression)m²/s50Hz3.26Alternator Fan Airflowm³/s0.32Intake Air Flow 100% StandbyKg/h690.00	Intake Air Flow 100% Standby	Kg/h		614.00
Intake Air Flow 100% Standby Kg/h 690.00	<b>o</b> ,	m³/s	50Hz	3.26
Tetal Careling Air Flaur 1009/ Standhu	Alternator Fan Airflow	m³/s		0.32
Total Cooling Air Flow 100% Standby	Intake Air Flow 100% Standby	Kg/h		690.00
(@ 20 mm $H_2$ 0 Canopy Depression) m /s 60HZ 3.26		m³/s	60Hz	3.26
Alternator Fan Airflow m <sup>3</sup> /s 0.38		m³/s		0.38

MECHANICAL FEATURES	
Cooling Pack	•
Air Filter	•
Mechanical Governor	•
Low Oil Pressure Sender	•
Coolant Temperature Sender	Δ
Low Oil Pressure Sensor	Δ
Oil Temperature Sender	•
Radiator Guards	•
Hot Component Guards	Δ
Manual Oil Drain Pump (Canopy)	Δ
Water Jacket Heater	Δ
Pre-Filter with Separator	•
Mechanical Fuel Level Indicator (Non CE Only)	Δ
Internal Fuel Fill (Belly Tank)	•
3 Way Fuel Valve with Quick Connector	Δ
Residential Silencer	•
Industrial Silencer	Х
Door Stops	Δ
Canopy Bump Stops	Δ
Bunded Base	Δ
Gravity Oil Drain Pipe	Δ
Larger Fuel Filler Neck	Δ
Electronic Governor	$\Delta$ (soon)
Standard: • Not Available: x Optional: 4	7

SOUND PRESSURE (CANOPY ONLY)						
LpA (7m)	50Hz	dB(A)	71			

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#### **ELECTRICAL FEATURES**

AVR DSR			•
AVR DER		х	
Winding Protection Standard		х	
Winding Protection Standard +			х
Winding Protection Grey			•
Winding Protection Total			х
Winding Protection Total +			х
MAUX			•
PMG			Х
Anti-Condensation Heater			Δ
3 Pole Moulded Case Circuit Breaker			•
4 Pole Moulded Case Circuit Breaker		$\Delta$	
Earth Leakage Protection (Shunt Trip)	•		
Preparation for Earth Connection	•		
Optional Voltages		$\Delta$	
Synchronisation		$\Delta$ (soon)	
Emergency Stop Button		•	
External Emergency Stop Button		•	
Fuel Level Sensor		•	
1x63A 3 Phase / 3x32A 1 Phase Socket		$\Delta$	
1x63A 3 Phase / 3x32A 1 Phase / 2x16		$\Delta$	
1x32A 3 Phase / 2x16A 1 Phase Socket	Box		Δ
Standard: •	Not Available: x	Optional: $\Delta$	

#### **BATTERY FEATURES**

Battery Isolator				$\Delta$
Battery Type				Sealed Lead Acid
Battery Size (Ah)				110
Number of Batteri	es			I
Battery Charger				Δ
	Standard: •	Not Available: x	Optional: $\Delta$	

JCB COMMUNICATION AND CONTROL			
DSE 4510	Х		
DSE 4520	•		
DSE 7320	Δ		
DSE 8610	$\Delta$ (soon)		
Live Link For Power	•		
OPTIONAL CE PACK			
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 C	Dptional: $\Delta$		

WEIGHT AND DIMENSIONS		
Length	mm	2850
Width	mm	40
Height	mm	1850
Shipping Volume (sea ready)	m <sup>3</sup>	5.95
Weight*	Kg	1880.00
*Standard build with all fluids except fuel		

#### **REFERENCE STANDARDS**

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

- EN 12100, EN 13857, EN 60204
- 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.

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