													No.		S6K-193	
	TRANSMITT	AL OF MITSU	BI	SH	IH	11(Ή	SF	PEE	D	DI	ES	EL	ENGINE	DOCUMENT	Г
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			API		APF								ENG	INE TYPE		
	PART NAME	PART No.	N	D	N	D	Ν	D	N	D	N	D		S6K-D65S		
1	S6K-D65SAG SPEC.	SPC-S6K-346	P	Α	Р	В							A: I	-irst offen		
2	S6K ENGINE ASSY	34300-02510	P	A											China Emis	sion
3	S6K-D65SAG ENG ASSY	34300-02511			Р	В								egulation L Export Only		
4	ACCESSORIES (WITH ENGINE)		P	Α	Р	В										
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28													В	H. Crow	H.Komaïsu T.Hirose	ref. spec
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31													A		A. Izaka	ref.
32															Jun. 30. 09	spec
33			<u> </u>										DATE	APPROVED	CHECKED BY	CC
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SPC-S6K-346(1/6)



SPECIFICATIONS

Used for 80kVA generator

MITSUBISHI HIGH SPEED DIESEL ENGINE \triangle MODEL MITSUBISHI S6K-D65SAG

(For GENERATOR OEM, 1500rpm)



PLEASE RETURN AFTER APPROVAL

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Revised record

No.	Date	Items	New	Old	Remarks
0	Jun. 30. 2009	First offer.			
		Model	S6K-D65SAG	S6K	
		MHI No.	34300-02511 (1/2-CHG0, 2/2-CHG0)	34300-02510	Addition of China emission label(Export only) Removal of oil pressure unit
		Regulations	National Standard of the People's Republic of China GB20891-2014 Export Only engine family; G3MVXLL0637KNZ (engine type; KNZ-S6K- PA1)	No emission regulated type	Change of spec
		Rating conditions(Without fan)	ISO 15550	JIS B 8002	S6K Addition of China emission 34300-02510 Addition of China emission label(Export only) Removal of oil pressure unit o emission regulated Change of spec JIS B 8002 Update of specific fuel ±5% consumption value
	14 2016	Fuel consumption			Update of specific fuel
\triangle	Mar. 14. 2016	Tolerance		±5%	
		Oil consumption	Approx.0.1~0.3% of fuel consumption <reference value=""> @Full load, Rated speed</reference>	Within 3.0g/kW-h	Change of notation to latest
		Flywheel	11-1/2 inch	SAE #11-1/2	Correction
		Engine attached items&Reference drawings change			
		UNIT, PRESSURE GAGE		05202-50100	Stop production of supplier
		UNIT, THERMOMETER	MD366-869	05204-50300	Intersher and 1
		STARTER	32B66-12301	32B66-12300	Interchangeable

1. Principal Particulars of Diesel Engine

General Specification

	Standard	All items, unless otherwise specified, are in accordance
		with JIS and maker's standards
	Model	Mitsubishi S6K
\triangle		S6K-D65SAG
\triangle		MHI No. 34300-02511 (1/2-CHG0, 2/2-CHG0)
	Application	Generator
	Regulations	National Standard of the People's Republic of China GB20891-2014 Export Only engine family; G3MVXLL0637KNZ (engine type; KNZ-S6K-PA1)
	Туре	4 cycle water-cooled, vertical overhead valve, cylinder in line, direct injection type
	Number of cylinders	6
	Bore × Stroke	$102 \text{mm} \times 130 \text{mm}$
	Piston displacement	6.373 liters
	Compression ratio	17:1
	Rotation	Anti-Clockwise rotation as viewed from flywheel side
	Firing order	1-5-3-6-2-4
	Engine weight(Dry)	Approx. 465kg
	Dimensions(Length)	Approx. 1163mm
	(Width)	Approx. 741mm
	(Height)	Approx. 918mm
	Inclination(Continuous)	Max.15°
	(Temporary)	Max.15°
	Fuel	ASTM diesel fuel oil No.2-D(JIS K2204 gas oil specification No.2 or 3)
	Lubricating oil	API classification service CF,CF-4 or CH-4 class
	Output(Without fan)	Spec.Rating
	Rated speed	Breaking in around 50hr 1500rpm
		St-by;70.5W
		Prime;64kW
	Rack set point	70.5kW/1500rpm
	-	(With Fan St-by;69kW)
		(With Fan Prime,63kW) 1500 High Idle
	Rating tolerance	±5% of nominal
	Low Idle	1000±20rpm
	High Idle	1583(0/-20)rpm
\triangle	Rating conditions(Without fan)	ISO 15550
		Total barometric pressure : 100kPa
		Air temperature :
		Relative humidity : 30%
	Fuel consumption	245g/kW-h at Prime output and standard air conditions(Without fan)
\triangle		
Δ	Oil consumption	Approx. $0.1 \sim 0.3\%$ of fuel consumption <reference value="">@Full load, Rated speed</reference>

Fuel injection timing	20°BTDC
Mean effective pressure	0.80MPa{8.2kgf/cm ² } at Prime(Without fan)
Piston speed	6.5m/s at 1500rpm

Fuel system

Fuel injection pump	In-Line type
Fuel injection nozzle	Multi-Hole type
Governor	Mechanical centrifugal type
Fuel filter	Filtering paper type
Fuel pump	Yes(Engine attached)

Lubricating system

Lubricating system	Forced lubrication by gear pump
Lubricating oil filter	Filtering paper type, full flow
Oil pressure	$0.2 \sim 0.4 \text{MPa} \{2 \sim 4 \text{kgf/cm}^2\}$ at duty run
	0.1MPa{1kgf/cm ² } min. at low idling
Oil capacity	Approx. 20.5 liters (Oil pan high level 19 liters, Oil filter etc.
	Approx. 1.5 liters, High ~ Low Approx. 5.2 liters)
Oil dipstick	Standard dipstick
Oil pressure switch	Yes
Oil pressure unit	Yes
Oil cooler	Plate type

Cooling system

Cooling system	Forced circulation of fresh water by centrifugal pump with thermostat
Engine water capacity	Approx. 9 liters
Cooling fan	580mm diameter, 7 blades, pusher
Water pump pulley	PCD 173mm
Pulley ratio	1.00 (Crankpulley : Water pump pulley = 173:173)
Fan spacer	60mm thickness
Water temp. switch	Yes
Thermo. Unit	Yes
Thermostat	Open at 71deg.C - full open at 85deg.C

Electrical system

Alternator	24V-35A
Voltage regulator	IC type (Built in alternator)
Regulator set voltage	$28.5 \pm 0.5 V$
Alternator pulley	PCD 80mm
Starting system	Electric starting
Starter motor	24V-5kW
Air heater	22V,95A
Engine shut off system	Electric solenoid (ETS)

SPC-S6K-346(5/6)

Intake and Exhaust system

Intake manifold(cover)	Rear side way
Exhaust manifold	Upper side way
Induction Resistance	Max 1.96kPa{200mmH20}(Initial stage)
Exhaust Back Pressure	Max 6.7kPa{683mmH20}

<Remarks>

Engine color

Flywheel housing

Black(MHI standard color) 11-1/2 inch SAE #3

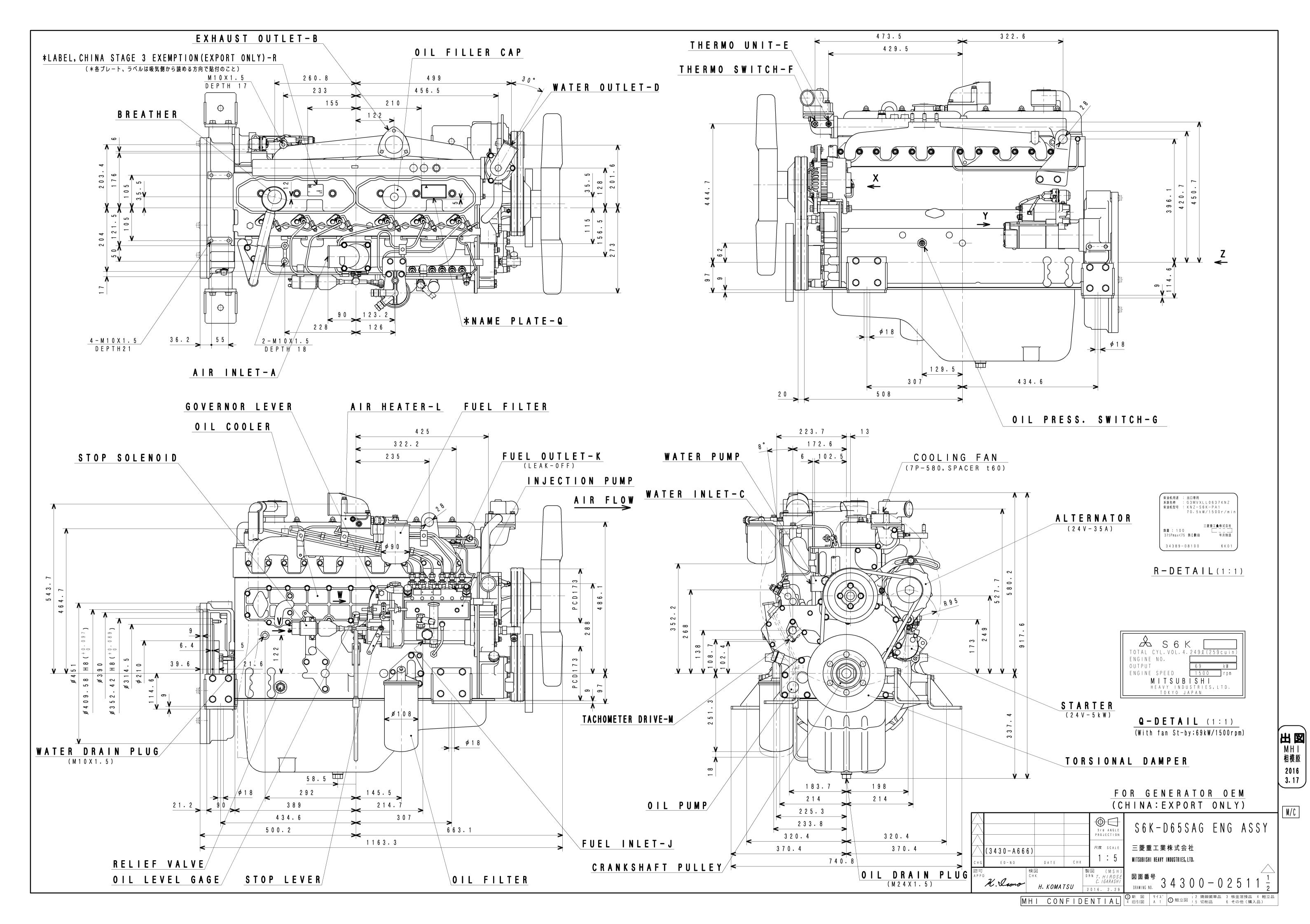
2. Engine attached items&Reference drawings

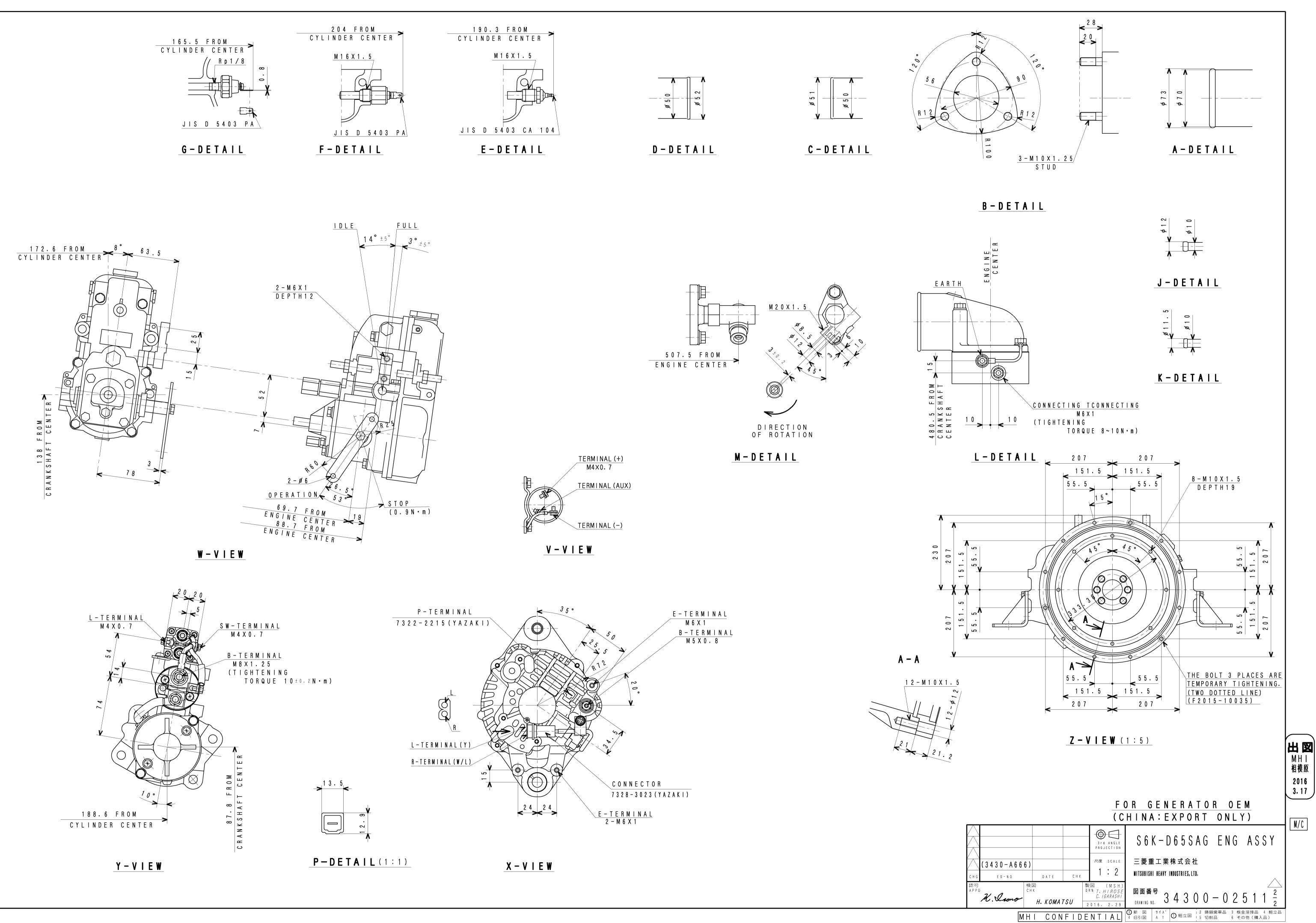
	Parts Name	Drawing No.	Q'ty	Remarks
	WIRING DIAGRAM	34290-07021	-	Reference(only for)
1	SWITCH,OIL PRESSURE	MC840-219	1	
2	SWITCH, THERMO	MC880-900	1	
3				
4	UNIT, THERMOMETER	MD366-869	1	
5	STOP SOLENOID(ETS)	34287-01300	1	STOP SOLENOID KIT 34387-00030
6	STARTER	32B66-12301	1	
7	AIR HEATER	36766-11502	1	
8	FILTER ASSY,FUEL	34362-00012	1	
9	ALTERNATOR	34368-04100	1	
10	OIL FILTER	34340-10022	1	
11	COOLING FAN	34348-00201	1	
12	L-JOINT	30625-35020	1	

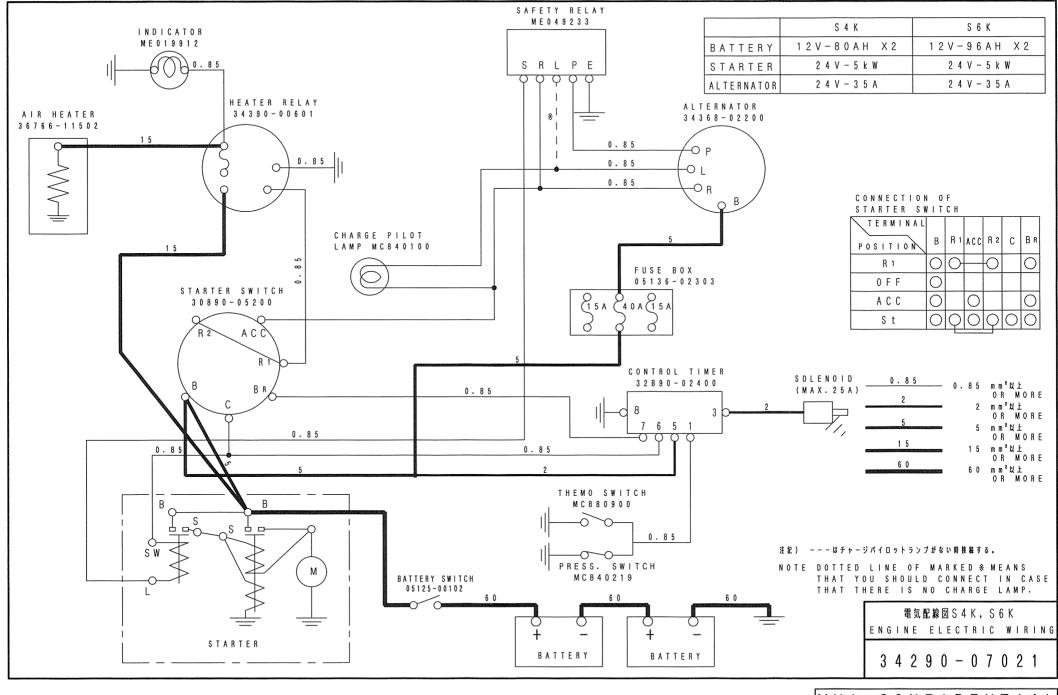
3. Accessories(Loose supply parts)

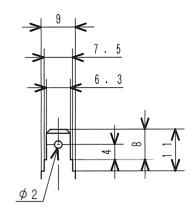
	Parts Name	Parts No.	Q'ty	Remarks]
1	TIMER CONTROL	32B90-02400	1		A4
2	CONNECTOR,3P	MM409-661	1		A4
3	CONNECTOR,4P	MM409-663	1		A4
4	CONNECTOR,2P	MH052-231	1		A4

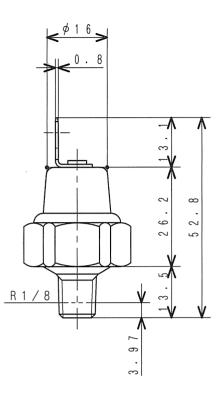
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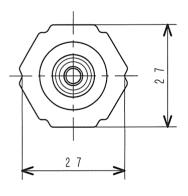










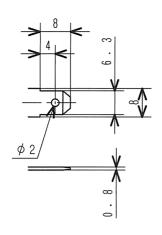


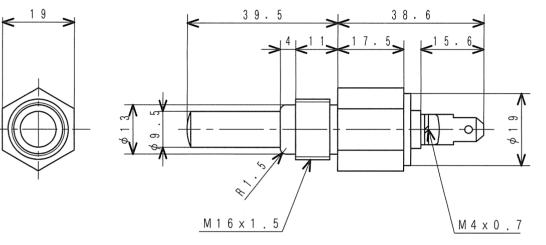
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作動圧力 OPERATING PRESS.	49kPa {0.5kgf/cm²}
作動電圧	1 2 V - 5 W
OPERATING VOLT.	24V-5W

^{オイルブレッシャスイッチ} SWITCH, OIL PRESSURE

MC840-219





部 品 番 号 PART No.	作 OPERA	≍ 動 温 度 \TING TEMP	•
MC880-900	温度下降時 DECREASE	≦ 1 0 0 ℃±4℃	で 接 点 開 の PEN
MC000-900	温 度 上 昇 時 R I S E	≧ 1 0 0 ℃ ± 2 ℃	で 接 点 閉 こ 上 の S E
MC880-901	温度下降時 DECREASE	≦ 1 0 5 ℃±4℃	で接点開 OPEN
MC000-901	温度上昇時 RISE	≧ 1 0 5 ℃±2℃	で 接 点 閉 C L O S E

定格負荷 RATED LOADED	1A以下 MAX.	0.5A以下 MAX.
定格電圧 RATED VOLT.	1 2 V	2 4 V

^{サ-モスイッチ} SWITCH, THERMO

MC880-900

