

## Air Compressor ENGINEERING DATA

No. : HINC-16001  
PAGE : 1 / 8  
DATE : Oct. 30, 2016

### **OSP-110M5AN2**

SINGLE STAGE AIR COOLED  
OIL FLOODED ROTARY SCREW COMPRESSOR

#### MODEL

#### 110M5AN2

RATING PRESSURE	MPa	0.75	0.85	1.0
<b>CAPACITY</b>				
@1.0MPa	m <sup>3</sup> /min	-	-	17.0
@0.90MPa	m <sup>3</sup> /min	-	-	17.2
@0.85MPa	m <sup>3</sup> /min	-	20.3	-
@0.80MPa	m <sup>3</sup> /min	-	20.4	-
@0.75MPa	m <sup>3</sup> /min	21.4	20.5	-
@0.70MPa	m <sup>3</sup> /min	21.5	-	-
@0.65MPa	m <sup>3</sup> /min	21.6	-	-
<b>SHAFT INPUT</b>				
@1.0MPa	kW	-	-	125
@0.90MPa	kW	-	-	119
@0.85MPa	kW	-	128	-
@0.80MPa	kW	-	125	-
@0.75MPa	kW	128	122	-
@0.70MPa	kW	125	-	-
@0.65MPa	kW	122	-	-
No Load	kW	35.8	35.8	35.8

<b>DISCHARGE AIR TEMP.</b>	°C	Atmospheric temperature + 15 or less		
<b>AMBIENT TEMP.RANGE</b>	°C	Atmospheric pressure/0 — 45		
<b>COOLING METHOD</b>	—	Air cooled		
<b>COMPRESSOR DRIVE</b>	—	Gear drive		
<b>COMPRESSION STAGE</b>	—	1		
<b>LUB.OIL BRAND</b>	—	HITACHI New HISCREW Oil Next		
<b>LUB.OIL SUMP CAPACITY</b>	L	50 (filled)		

# Air Compressor ENGINEERING DATA

No. : HINC-16001  
PAGE : 2 / 8  
DATE : Oct. 30, 2016

---

---

**MODEL****110M5AN2**

---

**MOTOR DATA**

## MAIN MOTOR

MOTOR SIZE	kW	110(SF1.2)
MOTOR RPM		
@50Hz	min <sup>-1</sup>	1485
MOTOR TYPE		4-pole TEFC 3phase induction motor
INSULATION CLASS		F
MOTOR PROTECTION CLASS		IP55

## FULL LOAD AMPS(REFERENCE)

@380V 50Hz	A	242
@415V 50Hz	A	221

-----  
**VENT.FAN MOTOR**

MOTOR SIZE	kW	1.5
MOTOR QTY.		2
MOTOR RPM	min <sup>-1</sup>	1420
MOTOR TYPE		Totally enclosed
INSULATION CLASS		F

---

# Air Compressor ENGINEERING DATA

No. : HINC-16001  
PAGE : 3 / 8  
DATE : Oct. 30, 2016

---

---

**MODEL****110M5AN2**

---

**STARTER & CONTROLS**

MAIN MOTOR STARTING METHOD

Star-delta

SOURCE VOLTAGE

3 phase,380/400/415,50Hz

CONTROL VOLTAGE

Single Phase,200V(50Hz)

CAPACITY CONTROL

M type

Automatically select control from  
the below 2 Methods.

\* I-mode: Integral Unload Method

\* P-mode: Motor ON/OFF Control Method

AUTOMATIC SAFETY  
SHUT DOWNS

Main Motor overload

Fan Motor overload

Fan Inverter trip

Air end outlet high discharge air temperature

Air/oil separator outlet high discharge air temp.

High oil tank pressure

Phase reversal and phase failure

SAFETY DEVICE

Safety valve

# Air Compressor

## ENGINEERING DATA

No. : HINC-16001  
PAGE : 4 / 8  
DATE : Oct. 30, 2016

---

---

**MODEL****110M5AN2**

---

**INSTRUMENTATION**

Supported Displays  
(LCD monitor indicator)

Discharge air pressure  
Operating hours  
Discharge air temperature 1,2  
Control settings  
Loading hours  
Loading ratio  
Load time/Unload time  
current  
Calendar/clock  
Ambient temperature  
Start-stop times  
Last maintenance time  
Hours to the next maintenance

Supported Operations  
(Buttons)

Start button  
Stop button  
Menu button  
Reset button  
E-mode button  
Scram button

Supported Indicators  
(Lights)

Power light  
Start light  
Load light  
Alarm light  
Remote light  
Auto start light  
E-mode light

Supported Instrumentation  
(Others)

USB Connector

---

# Air Compressor ENGINEERING DATA

No. : HINC-16001  
PAGE : 5 / 8  
DATE : Oct. 30, 2016

---

---

**MODEL****110M5AN2**

---

**AUXILIARY TERMINALS  
AND DRY CONTACTS**

Terminal for remote start  
(24VDC momentary ON switch) 1pair

Terminal for remote stop  
(24VDC momentary ON switch) 1pair

Dry "a" contact for operation signal output  
(MAX 250VAC,0.5A) 1pair

Dry "a" contact for alarm signal output  
(MAX 250VAC,0.5A) 1pair

Dry "a" contact for shutdown signal output  
(MAX 250VAC,0.5A) 1pair

Terminal for External Load-Unload  
(24VDC, "a" contact) 1pair

Terminal for External Remote  
(24VDC, "a" contact) 1pair

---

**MIN.REQ'D RECIEVER SIZE**  
(For ECOMODE)m<sup>3</sup>

2

(4)

---

**CONNECTIONS**

DISCHARGE AIR

2<sup>1</sup>/<sub>2</sub>B flange

OIL DRAIN

Rc<sup>1</sup>/<sub>2</sub>

AIR END OIL DRAIN

Rc<sup>1</sup>/<sub>4</sub>

GEAR CASE OIL DRAIN

Rc<sup>1</sup>/<sub>2</sub>

OILCOOLER DRAIN

Rc<sup>1</sup>/<sub>2</sub>

AFTERCOOLER DRAIN

Rc<sup>1</sup>/<sub>4</sub>

---

# Air Compressor ENGINEERING DATA

No. : HINC-16001  
PAGE : 6 / 8  
DATE : Oct. 30, 2016

---

---

**MODEL****110M5AN2**

---

**MATERIAL OF MAJOR COMPONENT****AIR END**

CASINGS

Cast iron

ROTORS

Cast iron

BEARINGS

Vacuum degassed steel

**DRIVE SYSTEM**

GEAR CASE

Cast iron

GEARS

Alloy steel

**COOLERS**

AFTERCOOLER

Aluminum

OIL COOLER

Aluminum

**SUCTION THROTTLE VALVE**

VALVE BODY

Cast Aluminum

VALVE PLATE

Cast iron

VALVE SHAFT

Stainless steel

**MIN.PRESSURE NON-RETURN VALVE**

Aluminum , etc

AIR PIPINGS

Steel tube

OIL PIPINGS

Copper tube

FITTINGS

Cast iron

Brass , etc.

**Air Compressor  
ENGINEERING DATA**No. : HINC-16001  
PAGE : 7 / 8  
DATE : Oct. 30, 2016

---

---

**MODEL****110M5AN2**

---

**STD.COLOR OF MAJOR COMPONENT**

## ENCLOSURE

FRONT  
TOP, BACK, SIDESSliver(Munsell 1.39PB6.18/0.56)  
Dark gray(Munsell N-2.5)

## INSTRUMENT PANEL

Sliver(Munsell 1.39PB6.18/0.56)

---

**DIMENSIONS**

L	mm	2550
W	mm	1500
H	mm	1890

(Except protrusion)

**MINIMUM MAINTENANCE  
SPACE REQUIRED**

FRONT	mm	800
REAR	mm	800
LEFT SIDE	mm	600
RIGHT SIDE	mm	600

---

**NET WEIGHT**kg 2800

---

**NOISE LEVEL**

(1.5m from front side)

dB(A) 75

---

**STD.ACCESSORIES**Hold down bolts  
Fork slot covers  
Instruction manual

---

# Air Compressor ENGINEERING DATA

No. : HINC-16001  
PAGE : 8 / 8  
DATE : Oct. 30, 2016

---

---

**MODEL**

---

**110M5AN2**

---

**OPTIONS**

VM unit control  
Multi control

---

**APPLIED STANDARDS****PRESSURE VESSEL**

FOR MALASIA

DOSH Approval of Unfired Pressure Vessels &  
Steam Boilers

FOR SINGAPORE

ASME BOILER & PRESSURE VESSEL CODE  
SECT. VIII DIV.1

FOR CHINA

Steel Pressure Vessel GB150-2011  
Issued by China State Bureau of Technical  
SupervisionFOR REGIONS  
OTHER THAN  
THESE ABOVESTANDARDS OF CONSTRUCTION OF PRESSURE  
VESSEL CLASS II issued by The Ministry of Health,  
Welfare of JAPAN**OTHER STANDARDS**Japanese standards , as shown below , are applied.  
JIS,JEC , JEM and GB