

IT. NO	SPECIFICATION	QTY.																																																																														
1	<p style="text-align: center;">تجهيز محولة قدرة</p> <p style="text-align: center;"><i>Technical specification of 7.5 MVA ,(33/11) kv power transformer</i></p> <table> <tbody> <tr> <td>1- Type of transformer</td><td>Outdoor type , oil immersed</td><td>1</td></tr> <tr> <td>2- Tap changer</td><td>On load tap changer</td><td>(only one)</td></tr> <tr> <td>3- Nominal power</td><td>7.5 MVA</td><td></td></tr> <tr> <td>4- System highest voltage</td><td>H.V. 36 kv , 3 phase , 50 Hz</td><td></td></tr> <tr> <td></td><td>L.V. 11.5 kv</td><td></td></tr> <tr> <td>5- System operating voltage</td><td>H.V. 33 kv , 3 phase , 50 Hz</td><td></td></tr> <tr> <td></td><td>L.V. 11 kv</td><td></td></tr> <tr> <td>6- Vector group</td><td>Dyn11</td><td></td></tr> <tr> <td>7- Cooling method</td><td>ONAF (Oil Natural Air Forced)</td><td></td></tr> <tr> <td></td><td style="text-align: right;">طريقة التبريد بالهواء القسري</td><td></td></tr> <tr> <td>8- Max. total losses at full load</td><td>< 65 kw</td><td></td></tr> <tr> <td>al (H.V. / L.V.) (copper / copper)</td><td></td><td></td></tr> <tr> <td>10- Ambient temperature</td><td>55 °C</td><td></td></tr> <tr> <td>11- Hottest spot temperature</td><td>115 °C</td><td></td></tr> <tr> <td>12- Rated temperature rise :</td><td></td><td></td></tr> <tr> <td> a - Oil by thermometer</td><td>50 °C</td><td></td></tr> <tr> <td> b- Winding by resistance</td><td>55 °C</td><td></td></tr> <tr> <td>13- Insulation strength of winding :</td><td></td><td></td></tr> <tr> <td> a- Impulse full wave</td><td>H.V. 170 kv</td><td></td></tr> <tr> <td></td><td>L.V. 75 kv</td><td></td></tr> <tr> <td> b- Impulse chopped wave</td><td>H.V. 195 kv</td><td></td></tr> <tr> <td></td><td>L.V. 90 kv</td><td></td></tr> <tr> <td> c- Applied voltage test</td><td>H.V. 70 kv</td><td></td></tr> <tr> <td></td><td>L.V. 25 kv</td><td></td></tr> <tr> <td> d- Induced voltage test</td><td>H.V. 170 kv</td><td></td></tr> <tr> <td></td><td>L.V. 75 kv</td><td></td></tr> </tbody> </table>	1- Type of transformer	Outdoor type , oil immersed	1	2- Tap changer	On load tap changer	(only one)	3- Nominal power	7.5 MVA		4- System highest voltage	H.V. 36 kv , 3 phase , 50 Hz			L.V. 11.5 kv		5- System operating voltage	H.V. 33 kv , 3 phase , 50 Hz			L.V. 11 kv		6- Vector group	Dyn11		7- Cooling method	ONAF (Oil Natural Air Forced)			طريقة التبريد بالهواء القسري		8- Max. total losses at full load	< 65 kw		al (H.V. / L.V.) (copper / copper)			10- Ambient temperature	55 °C		11- Hottest spot temperature	115 °C		12- Rated temperature rise :			a - Oil by thermometer	50 °C		b- Winding by resistance	55 °C		13- Insulation strength of winding :			a- Impulse full wave	H.V. 170 kv			L.V. 75 kv		b- Impulse chopped wave	H.V. 195 kv			L.V. 90 kv		c- Applied voltage test	H.V. 70 kv			L.V. 25 kv		d- Induced voltage test	H.V. 170 kv			L.V. 75 kv		
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مذتمع بـ عـربـيـ

14- Insulation strength of winding :

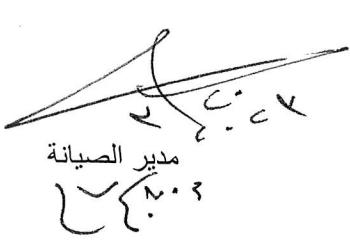
- a- over voltage test 70 kv
- b- minimum wet withstand 70 kv
- c- minimum impulse withstand 170 kv
- d- minimum puncture or oil-immersed withstand voltage 75 kv

15- Insulation on copper craft paper

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|--------------------------|------------|----------------------------|
| 16- Terminal arrangement | H.V. 33 KV | Bushing type |
| | L.V. 11 KV | Totally enclosed cable box |



مدير المعمل



مدير الصيانة



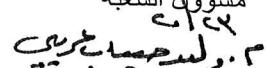
رئيس القسم الطالب



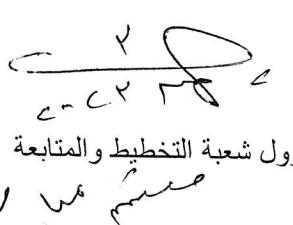
عماد رزاق



مسؤول الشعبة



صالح إبراهيم



مسؤول شعبة التخطيط والمتابعة