

TECHNICAL SPECIFICATIONS

03.11.2022

CUSTOMER

OFFER NO.

GENERAL

Product: 50 kVA 35/0,4 kV Hermetically Sealed Transformer
Applicable Standards: IEC 60076-1
Max. Ambient Temp.: 40 °C
Service Type: Continuous Service
Cooling Method: ONAN
Oil: Mineral Oil as per IEC 60296
End Color: RAL 7033

ELECTRICAL SPECIFICATIONS

Frequency:	50 Hz.	SC Impedance (Uk%)	4,5 % ± 10%
Connection Group:	Yzn 11	Tap Changer Type:	Off Load
Number of Phases:	3	No of Tappings:	5
HV Windings:	Aluminium	Tapping Range:	+2 x %2,5 -2 x %2,5
LV Windings:	Aluminium	No-Load Losses:	230 W
Oil Temp. Rise:	60 K	Load Losses:	1250 W
Windings Temp. Rise:	65 K	Insulation Class:	Class A
Short Circuit Withstand:	2 sec.		
One Minute Power Frequency Withstand of HV/LV:	70/3 kV		
Lightning Impulse Withstand of HV/LV:	170/- kV		

WEIGHTS and DIMENSIONS

Width:	560 mm.	Total Weight:	410 kg
Length:	830 mm.	Oil Weight:	120 kg
Height:	1180 mm.	Active Part Weight:	230 kg

ACCESSORIES

+ HV Bushings Porcelain (DIN Type)	+ LV Bushings Porcelain
+ Lifting Lugs	+ Oil Filling/Drain Valve
+ Earthing Terminals	+ Oil Level Indicator
+ Tap Changer	Dehydrating Breather
+ Thermometer Pocket	Buchholz Relay
Multi Protection Relay	Thermometer (With contact)
+ Pressure Relief Device	Marshalling Box
Wheels	Thermometer (Without contact)
HV Cable Box (min IP54)	LV Cable Box (min IP54)

Accessories marked as "+" sign are included with the offer

NOTES

Losses are maximum without any positive tolerances.
Dimensions and weights are approximate.

Form: 1-2
Rev: -
10.01.2014

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End Color: RAL 7033

ELECTRICAL SPECIFICATIONS

Frequency:	50 Hz.	SC Impedance (Uk%)	4,5 % ± 10%
Connection Group:	Dyn 11	Tap Changer Type:	Off Load
Number of Phases:	3	No of Tappings:	5
HV Windings:	Aluminium	Tapping Range:	+2 x %2,5 -2 x %2,5
LV Windings:	Aluminium	No-Load Losses:	160 W
Oil Temp. Rise:	60 K	Load Losses:	1050 W
Windings Temp. Rise:	65 K	Insulation Class:	Class A
Short Circuit Withstand:	2 sec.		
One Minute Power Frequency Withstand of HV/LV:	70/3 kV		
Lightning Impulse Withstand of HV/LV:	170/- kV		

WEIGHTS and DIMENSIONS

Width:	650 mm.	Total Weight:	560 kg
Length:	1000 mm.	Oil Weight:	180 kg
Height:	1190 mm.	Active Part Weight:	320 kg

ACCESSORIES

+ HV Bushings Porcelain (DIN Type)	+ LV Bushings Porcelain
+ Lifting Lugs	+ Oil Filling/Drain Valve
+ Earthing Terminals	+ Oil Level Indicator
+ Tap Changer	Dehydrating Breather
+ Thermometer Pocket	Buchholz Relay
Multi Protection Relay	Thermometer (With contact)
+ Pressure Relief Device	Marshalling Box
Wheels	Thermometer (Without contact)
HV Cable Box (min IP54)	LV Cable Box (min IP54)

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Product: 100 kVA 35/0,4 kV Hermetically Sealed Transformer
Applicable Standarts: IEC 60076-1
Max. Ambient Temp.: 40 °C
Service Type: Continuous Service
Cooling Method: ONAN
Oil: Mineral Oil as per IEC 60296
End Color: RAL 7033

ELECTRICAL SPECIFICATIONS

Frequency:	50 Hz.	SC Impedance (Uk%)	4,5 % ± 10%
Connection Group:	Yzn 11	Tap Changer Type:	Off Load
Number of Phases:	3	No of Tappings:	5
HV Windings:	Aluminium	Tapping Range:	+2 x %2,5 -2 x %2,5
LV Windings:	Aluminium	No-Load Losses:	380 W
Oil Temp. Rise:	60 K	Load Losses:	1950 W
Windings Temp. Rise:	65 K	Insulation Class:	Class A
Short Circuit Withstand:	2 sec.		
One Minute Power Frequency Withstand of HV/LV:	70/3 kV		
Lightning Impulse Withstand of HV/LV:	170/- kV		

WEIGHTS and DIMENSIONS

Width:	610 mm.	Total Weight:	580 kg
Length:	910 mm.	Oil Weight:	160 kg
Height:	1220 mm.	Active Part Weight:	350 kg

ACCESSORIES

+ HV Bushings	Porcelain (DIN Type)	+ LV Bushings	Porcelain
+ Lifting Lugs		+ Oil Filling/Drain Valve	
+ Earthing Terminals		+ Oil Level Indicator	
+ Tap Changer		Dehydrating Breather	
+ Thermometer Pocket		Buchholz Relay	
Multi Protection Relay		Thermometer (With contact)	
+ Pressure Relief Device		Marshalling Box	
Wheels		Thermometer (Without contact)	
HV Cable Box (min IP54)		LV Cable Box (min IP54)	

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Service Type: Continuous Service
Cooling Method: ONAN
Oil: Mineral Oil as per IEC 60296
End Color: RAL 7033

ELECTRICAL SPECIFICATIONS

Frequency:	50 Hz.	SC Impedance (UK%)	4,5 % ± 10%
Connection Group:	Dyn 11	Tap Changer Type:	Off Load
Number of Phases:	3	No of Tappings:	5
HV Windings:	Aluminium	Tapping Range:	+2 x %2,5 -2 x %2,5
LV Windings:	Aluminium	No-Load Losses:	270 W
Oil Temp. Rise:	60 K	Load Losses:	1650 W
Windings Temp. Rise:	65 K	Insulation Class:	Class A
Short Circuit Withstand:	2 sec.		
One Minute Power Frequency Withstand of HV/LV:	70/3 kV		
Lightning Impulse Withstand of HV/LV:	170/- kV		

WEIGHTS and DIMENSIONS

Width:	730 mm.	Total Weight:	850 kg
Length:	1130 mm.	Oil Weight:	260 kg
Height:	1280 mm.	Active Part Weight:	520 kg

ACCESSORIES

+ HV Bushings Porcelain (DIN Type)	+ LV Bushings Porcelain
+ Lifting Lugs	+ Oil Filling/Drain Valve
+ Earthing Terminals	+ Oil Level Indicator
+ Tap Changer	Dehydrating Breather
+ Thermometer Pocket	Buchholz Relay
Multi Protection Relay	Thermometer (With contact)
+ Pressure Relief Device	Marshalling Box
Wheels	Thermometer (Without contact)
HV Cable Box (min IP54)	LV Cable Box (min IP54)

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NOTES

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TECHNICAL SPECIFICATIONS

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CUSTOMER

OFFER NO.

GENERAL

Product: 160 kVA 35/0,4 kV Hermetically Sealed Transformer
Applicable Standards: IEC 60076-1
Max. Ambient Temp.: 40 °C
Service Type: Continuous Service
Cooling Method: ONAN
Oil: Mineral Oil as per IEC 60296
End Color: RAL 7033

ELECTRICAL SPECIFICATIONS

Frequency:	50 Hz.	SC Impedance (Uk%)	4,5 % ± 10%
Connection Group:	Yzn 11	Tap Changer Type:	Off Load
Number of Phases:	3	No of Tappings:	5
HV Windings:	Aluminium	Tapping Range:	+2 x %2,5 -2 x %2,5
LV Windings:	Aluminium	No-Load Losses:	520 W
Oil Temp. Rise:	60 K	Load Losses:	2550 W
Windings Temp. Rise:	65 K	Insulation Class:	Class A
Short Circuit Withstand:	2 sec.		
One Minute Power Frequency Withstand of HV/LV:	70/3 kV		
Lightning Impulse Withstand of HV/LV:	170/- kV		

WEIGHTS and DIMENSIONS

Width:	650 mm.	Total Weight:	760 kg
Length:	990 mm.	Oil Weight:	200 kg
Height:	1290 mm.	Active Part Weight:	470 kg

ACCESSORIES

+ HV Bushings Porcelain (DIN Type)	+ LV Bushings Porcelain
+ Lifting Lugs	+ Oil Filling/Drain Valve
+ Earthing Terminals	+ Oil Level Indicator
+ Tap Changer	Dehydrating Breather
+ Thermometer Pocket	Buchholz Relay
Multi Protection Relay	Thermometer (With contact)
+ Pressure Relief Device	Marshalling Box
Wheels	Thermometer (Without contact)
HV Cable Box (min IP54)	LV Cable Box (min IP54)

Accessories marked as "+" sign are included with the offer

NOTES

Losses are maximum without any positive tolerances.
Dimensions and weights are approximate.

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GENERAL

Product: 160 kVA 33/0,4 kV Hermetically Sealed Transformer
Applicable Standarts: IEC 60076-1
Max. Ambient Temp.: 40 °C
Service Type: Continuous Service
Cooling Method: ONAN
Oil: Mineral Oil as per IEC 60296
End Color: RAL 7033

ELECTRICAL SPECIFICATIONS

Frequency:	50 Hz.	SC Impedance (Uk%)	4,5 % ± 10%
Connection Group:	Yzn 11	Tap Changer Type:	Off Load
Number of Phases:	3	No of Tappings:	6
HV Windings:	Aluminium	Tapping Range:	+2 x %4,5454 -3 x %4,5454
LV Windings:	Aluminium	No-Load Losses:	390 W
Oil Temp. Rise:	60 K	Load Losses:	2150 W
Windings Temp. Rise:	65 K	Insulation Class:	Class A
Short Circuit Withstand:	2 sec.		
One Minute Power Frequency Withstand of HV/LV:	70/3 kV		
Lightning Impulse Withstand of HV/LV:	170/- kV		

WEIGHTS and DIMENSIONS

Width:	710 mm.	Total Weight:	900 kg
Length:	1030 mm.	Oil Weight:	230 kg
Height:	1290 mm.	Active Part Weight:	590 kg

ACCESSORIES

+ HV Bushings Porcelain (DIN Type)	+ LV Bushings Porcelain
+ Lifting Lugs	+ Oil Filling/Drain Valve
+ Earthing Terminals	+ Oil Level Indicator
+ Tap Changer	Dehydrating Breather
+ Thermometer Pocket	Buchholz Relay
Multi Protection Relay	Thermometer (With contact)
+ Pressure Relief Device	Marshalling Box
Wheels	Thermometer (Without contact)
HV Cable Box (min IP54)	LV Cable Box (min IP54)

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NOTES

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Dimensions and weights are approximate.

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Rev: -
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TECHNICAL SPECIFICATIONS

03.11.2022

CUSTOMER

OFFER NO.

GENERAL

Product: 250 kVA 35/0,4 kV Hermetically Sealed Transformer
Applicable Standards: IEC 60076-1
Max. Ambient Temp.: 40 °C
Service Type: Continuous Service
Cooling Method: ONAN
Oil: Mineral Oil as per IEC 60296
End Color: RAL 7033

ELECTRICAL SPECIFICATIONS

Frequency:	50 Hz.	SC Impedance (Uk%)	4,5 % ± 10%
Connection Group:	Dyn 11	Tap Changer Type:	Off Load
Number of Phases:	3	No of Tappings:	5
HV Windings:	Aluminium	Tapping Range:	+2 x %2,5 -2 x %2,5
LV Windings:	Aluminium	No-Load Losses:	780 W
Oil Temp. Rise:	60 K	Load Losses:	3500 W
Windings Temp. Rise:	65 K	Insulation Class:	Class A
Short Circuit Withstand:	2 sec.		
One Minute Power Frequency Withstand of HV/LV:	70/3 kV		
Lightning Impulse Withstand of HV/LV:	170/- kV		

WEIGHTS and DIMENSIONS

Width:	810 mm.	Total Weight:	950 kg
Length:	1020 mm.	Oil Weight:	240 kg
Height:	1330 mm.	Active Part Weight:	590 kg

ACCESSORIES

+ HV Bushings Porcelain (DIN Type)	+ LV Bushings Porcelain
+ Lifting Lugs	+ Oil Filling/Drain Valve
+ Earthing Terminals	+ Oil Level Indicator
+ Tap Changer	Dehydrating Breather
+ Thermometer Pocket	Buchholz Relay
Multi Protection Relay	Thermometer (With contact)
+ Pressure Relief Device	Marshalling Box
Wheels	Thermometer (Without contact)
HV Cable Box (min IP54)	LV Cable Box (min IP54)

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End Color: RAL 7033

ELECTRICAL SPECIFICATIONS

Frequency:	50 Hz.	SC Impedance (Uk%)	4,5 % ± 10%
Connection Group:	Dyn 11	Tap Changer Type:	Off Load
Number of Phases:	3	No of Tappings:	5
HV Windings:	Aluminium	Tapping Range:	+2 x %2,5 -2 x %2,5
LV Windings:	Aluminium	No-Load Losses:	550 W
Oil Temp. Rise:	60 K	Load Losses:	3000 W
Windings Temp. Rise:	65 K	Insulation Class:	Class A
Short Circuit Withstand:	2 sec.		
One Minute Power Frequency Withstand of HV/LV:	70/3 kV		
Lightning Impulse Withstand of HV/LV:	170/- kV		

WEIGHTS and DIMENSIONS

Width:	740 mm.	Total Weight:	1040 kg
Length:	1060 mm.	Oil Weight:	260 kg
Height:	1440 mm.	Active Part Weight:	680 kg

ACCESSORIES

+ HV Bushings Porcelain (DIN Type)	+ LV Bushings Porcelain
+ Lifting Lugs	+ Oil Filling/Drain Valve
+ Earthing Terminals	+ Oil Level Indicator
+ Tap Changer	Dehydrating Breather
+ Thermometer Pocket	Buchholz Relay
Multi Protection Relay	Thermometer (With contact)
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OFFER NO.

GENERAL

Product: 400 kVA 35/0,4 kV Hermetically Sealed Transformer
Applicable Standards: IEC 60076-1
Max. Ambient Temp.: 40 °C
Service Type: Continuous Service
Cooling Method: ONAN
Oil: Mineral Oil as per IEC 60296
End Color: RAL 7033

ELECTRICAL SPECIFICATIONS

Frequency:	50 Hz.	SC Impedance (Uk%)	4,5 % ± 10%
Connection Group:	Dyn 11	Tap Changer Type:	Off Load
Number of Phases:	3	No of Tappings:	5
HV Windings:	Aluminium	Tapping Range:	+2 x %2,5 -2 x %2,5
LV Windings:	Aluminium	No-Load Losses:	1120 W
Oil Temp. Rise:	60 K	Load Losses:	4900 W
Windings Temp. Rise:	65 K	Insulation Class:	Class A
Short Circuit Withstand:	2 sec.		
One Minute Power Frequency Withstand of HV/LV:	70/3 kV		
Lightning Impulse Withstand of HV/LV:	170/- kV		

WEIGHTS and DIMENSIONS

Width:	840 mm.	Total Weight:	1270 kg
Length:	1100 mm.	Oil Weight:	300 kg
Height:	1410 mm.	Active Part Weight:	800 kg

ACCESSORIES

+ HV Bushings Porcelain (DIN Type)	+ LV Bushings Porcelain
+ Lifting Lugs	+ Oil Filling/Drain Valve
+ Earthing Terminals	+ Oil Level Indicator
+ Tap Changer	Dehydrating Breather
+ Thermometer Pocket	Buchholz Relay
Multi Protection Relay	Thermometer (With contact)
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Number of Phases:	3	No of Tappings:	5
HV Windings:	Aluminium	Tapping Range:	+2 x %2,5 -2 x %2,5
LV Windings:	Aluminium	No-Load Losses:	790 W
Oil Temp. Rise:	60 K	Load Losses:	4150 W
Windings Temp. Rise:	65 K	Insulation Class:	Class A
Short Circuit Withstand:	2 sec.		
One Minute Power Frequency Withstand of HV/LV:	70/3 kV		
Lightning Impulse Withstand of HV/LV:	170/- kV		

WEIGHTS and DIMENSIONS

Width:	950 mm.	Total Weight:	1450 kg
Length:	1180 mm.	Oil Weight:	330 kg
Height:	1430 mm.	Active Part Weight:	980 kg

ACCESSORIES

+ HV Bushings Porcelain (DIN Type)	+ LV Bushings Porcelain
+ Lifting Lugs	+ Oil Filling/Drain Valve
+ Earthing Terminals	+ Oil Level Indicator
+ Tap Changer	Dehydrating Breather
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