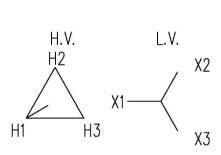


## 4.2 MVA Medium Voltage Transformer Skid



The CPS three-phase 4.2 MVA Medium-Voltage Transformer Skid Solution is the last step in the conversion chain that brings electrical energy to the power grid. The transformers are designed for superior reliability, efficiency, and environmental performance. A modular architecture paired with design options ensures cost efficiency and easy, minimal maintenance. The Skid Solution includes the Low-Voltage Cabinet, Auxiliary Transformer, communications and controls.

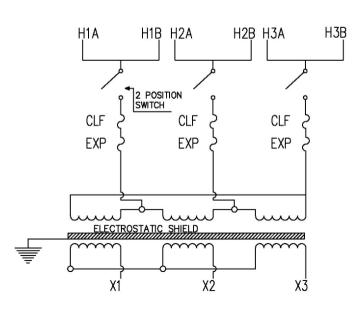
## **Phasor Diagram**







## **Connection Diagram**





Recting   Section   Sec	Model Name	TX4200-34.5/0.8-Dy1	TX4200-13.8/0.8-Dy1	
Low Voltage rating   34.5 kV   13.8 kV   No load loss g 20°C   4.9 kW   13.8 kV   No load loss g 85°C   33.5 kW   Two windings typ. = 9.0% ± 7.5%   Ayerage winding temperature rise   65°C   60 Hz   Frequency   60 Hz   Frequency   60 Hz   Frequency   60 Hz   Frequency   7.0% ± 7.5%   Ayerage winding temperature rise   7.0% ± 7.	Electrical Ratings			
Medium voltage rating         34,5 ky         13.8 kV           No-load loss @ 20°C         4.9 bW         Load loss @ 20°C         33.6 kW           Lonad loss @ 20°C         33.6 kW         Impedance (low-voltage to high-voltage)         Two windings typs. = 7.0% ± 7.5%         Nex owned windings typs. = 9.0% ± 7.5%           Average winding temperature rise         60 Hz         Frequency         60 Hz         Frequency           Petrogroup         By 328 @ 50% loosty 99% @ full Load         Petrogroup         Frequency         Petrogroup         Frequency         Petrogroup         <	Rated power	4.2 MVA		
No-load loss @ 20°C Load loss @ 85°C Impedance (low-voltage to high-voltage) Two windings typ. ≈ 7.0% ± 7.5%   Two windings typ. ≈ 9.0% ± 7.5%   Neva gew inding temperature rise Firequency 99.32% ⊕ 50% load: 99% € full Load Vector group Ferquency 99.32% ⊕ 50% load: 99% € full Load Vector group  Configuration  Configuration  Configuration  Configuration  Electrostatic shield between high-voltage and low-voltage windings (2 windings) Insulating fluid Biodegradable oil, FR3 type or equivalent High-voltage conductor material High-voltage conductor material High-voltage conductor material High-voltage configuration  Coverurence type 4515 A, 30 kV Bil. Low-voltage bushing 600A, 35 kV deadbreak bushing, 150 kV Bil. (quantity: 6) Low-voltage bushing 630A, 2-postion load-break switch Load-break switching 630A, 2-postion load-break switch Coverurent protection 638 kV partial-range CLF 100A x 2  Standard Accessories  Liquid level gauge with alarm contacts Liquid level gauge with alarm con	Low voltage rating	800 Vac		
Load loss & 85°C         Two windings typ. ≈ 7.0% ± 7.5%         Two windings typ. ≈ 9.0% ± 7.5%           Impedance (low-voltage to high-voltage)         Two windings typ. ≈ 7.0% ± 7.5%         Two windings typ. ≈ 9.0% ± 7.5%           Average winding temperature rise         60 Hz         Frequency         60 Hz         Freduncy         60 Hz         Freduncy         60 Hz         Freduncy         Fred	Medium voltage rating	34.5 kV	13.8kV	
Impedance (low-voltage to high-voltage)	No-load loss @ 20°C	4.9 kW		
Average winding temperature rise         65°C           Frequency         60 Hz           Frequency         60 Hz           Efficiency         99.32% ⊕ 50% load; 9% ⊕ full Load           Vector group         Dy1           Configuration         STANA           Number of windings         RNAN           Insulating fluid         Biodegradable oil, FR3 type or equivalent           High-voltage conductor material         Aluminum           Voltage taps         600A, 35 kV deadbreak bushing, 150 kV BIL (quantity: 6)           Low-voltage bushing         600A, 35 kV deadbreak bushing, 150 kV BIL (quantity: 6)           Low-voltage configuration         Loap-feed, dead front           Load-break witching         630A 2-position load-break witch           Overcurrent protection         38 kV bayonet fuses 120A         15 kV bayonet fuses 230A           38 kV partial-range CLF 100A x 2         15 kV bayonet fuses 230A         38 kV partial-range CLF 100A x 2           Standard Accessories         Included           Liquid temperature indicator with alarm contacts         Included           Liquid temperature indicator with alarm contacts         Included           Pressure recaurung augue with laarm contacts         Included           Off-load tap changer         Robusty           Pressure reli	Load loss @ 85°C	33.6 kW		
Frequency         60 Hz         Efficiency         99.32% ⊕ 50% load; 99% € full Load         Efficiency         Py9, © py% € full Load         Dy1         Dy1         Configuration         Cooling class         KNAN         Number of windings         2         Electrostatic shield be tween high-voltage and low-voltage windings (2 windings)         Insulating fluid         Biodegradable oil, FR3 type or equivalent         High-voltage conductor material         Aluminum         Voltage taps         2-2.5% taps above, and 2-2.5% taps below nominal voltage         High-voltage bushing         600A, 35 kV deadbreak bushing, 150 kV BIL (quantity, 6)         Cooling table type 4515 A, 30 kV BIL (quantity, 6)         Cooling 451	Impedance (low-voltage to high-voltage)	Two windings typ. $\approx 7.0\% \pm 7.5\%$	Two windings typ. $\approx 9.0\% \pm 7.5\%$	
Efficiency 99.32% @ 50% load; 99% @ full Load Vector group  Configuration  Cooling class  KNAN Number of windings  Electrostatic shield between high-voltage and low-voltage windings (2 windings) Insulating fluid  Biodegradable oil, FR3 type or equivalent High-voltage conductor material  Voltage taps  2-2.5% taps above, and 2-2.5% taps below nominal voltage High-voltage bushing  600A, 35 kW deadbreak bushing, 150 kW BIL (quantity, 6)  Low-voltage bushing  4 holes, blade type 4515 A, 30 kV BIL High-voltage configuration  Loop-feed, dead front Load-break switching  630A 2-position load-break switch  38 kV bayonet fuses 120A  15 kV partial-range CLF 100A x 2  15 kV partial-range CLF 180A x 2  Standard Accessories  Liquid level gauge with alarm contacts Liquid temperature indicator with alarm contacts Liquid temper	Average winding temperature rise	6.	65°C	
Vector group         Dy1           Configuration         Configuration           Cooling class         N Number of windings           Electrostatic shielding         Electrostatic shield between high-voltage and low-voltage windings (2 windings)           Insulating fluid         Biodegradable oil, Fil3 type or equivalent           High-voltage conductor material         All minimum           Voltage taps         2-2.5% taps above, and 2-2.5% taps below nominal voltage           High-voltage bushing         4 holes, blade type 4515 A, 30 kV Bil. (quantity; 6)           Low voltage bushing         4 holes, blade type 4515 A, 30 kV Bil.           High-voltage configuration         Loop-feed, dead front           Load-break switching         38 kV bayonet fuses 120A         15 kV bayonet fuses 230A           Assistance         38 kV bayonet fuses 120A         15 kV bayonet fuses 230A           Assistance         15 kV bayonet fuses 230A         15 kV bayonet fuses 230A <t< td=""><td>Frequency</td><td>60</td><td>) Hz</td></t<>	Frequency	60	) Hz	
Configuration         KNNAN           Cooling class         KNNAN           Number of windings         2           Electrostatic shielding         Electrostatic shield between high-voltage and low-voltage windings (2 windings)           Insulating fluid         Biodegradable oil, FR3 type or equivalent           High-voltage conductor material         Aluminum           Voltage taps         2-2.5% taps above, and 2-2.5% taps below nominal voltage           High-voltage bushing         600A, 35 kV deadbreak bushing, 150 kV BIL (quantity: 6)           Low-voltage bushing         1 Loop-reed, dead front           Load-break switching         630A 2-position load-break switch           Load-break switching         630A 2-position load-break switch           Overcurrent protection         38 kV bayonet fuses 120A         15 kV bayonet fuses 230A           Overcurrent protection         38 kV bayonet fuses 120A         15 kV bayonet fuses 230A           Overcurrent protection         38 kV bayonet fuses 120A         15 kV bayonet fuses 230A           Overcurrent protection         38 kV bayonet fuses 120A         15 kV bayonet fuses 230A           Overcurrent protection         1 Included           Liquid level gauge with alarm contacts         Included           Uigit level gauge with alarm contacts         Included           O	Efficiency	99.32% @ 50% load; 99% @ full Load		
Cooling class Number of windings 2 Electrostatic shield between high-voltage and low-voltage windings (2 windings) Insulating fluid Biodegradable oil, FR3 type or equivalent High-voltage conductor material Voltage taps Pigh-voltage bushing Aluminum Voltage bushing GooA, 35 kV deadsbreak bushing, 150 kV BLI (quantity; 6) Low-voltage bushing A holes, blade type 4515 A, 30 kV BLI High-voltage configuration Load-break switching Overcurrent protection 38 kV partial-range CLF 100A x 2 15 kV partial-range CLF 180A x 2  Standard Accessories  Liquid level gauge with alarm contacts Liquid level gauge with alarm contacts Liquid level gauge with alarm contacts Cliquid taphereature indicator with alarm contacts Included Off-load tap changer Pressure relief valve Oli filling tube Clirique blanket Environment  Enclosure protection degree Nitrogen blanket Environment  Enclosure protection degree Separating temperature range Operating temperature range Operating temperature range UL certified to IEEE CS7,12,00, IEEE CS7,12,29, CSA C2,1-06, CAN / CSA-C2273, C227.4  Varanty  Standard  Varanty  Standard  Electrostatic shield between high-voltage and low-voltage windings (2 windings)  Electrostatic shield between high-voltage and low-voltage windings (2 windings)  Electrostatic shield between high-voltage and low-voltage windings (2 windings)  Electrostatic shield between high-voltage and low-voltage windings (2 windings)  Electrostatic shield between high-voltage and low-voltage windings (2 windings)  Electrostatic shield between high-voltage and low-voltage windings (2 windings)  Electrostatic shield between high-voltage and low-voltage windings (2 windings)  Electrostatic shield between high-voltage and low-voltage windings (2 windings)  Electrostatic shield between high-voltage and low-voltage with alarm in the protection degree and several shield between high-voltage and solve switch  Electrostatic shield between the flowed and shield shield between the flowed and shield shield shield shield shield shield shield shield shield		D	y1	
Number of windings   Electrostatic shielding   Electrostatic shield between high-voltage and low-voltage windings (2 windings)   Insulating fluid   Biodegradable oil, FR3 type or equivalent   High-voltage conductor material   Aluminum	Configuration			
Electrostatic shielding Electrostatic shield between high-voltage and low-voltage windings (2 windings) Insulating fluid Biodegradable oil, FR3 type or equivalent High-voltage conductor material Aluminum Voltage taps 2-2.5% taps above, and 2-2.5% taps below nominal voltage High-voltage bushing 600A, 35 kV deadbreak bus hing, 150 kV BIL (quantity: 6) Low-voltage bushing 1 A holes, blade type +4515 A, 30 kV BIL. High-voltage configuration 1 Loop-feed, dead front Load-break switching 630A 2-position load-break switch Oerccurrent protection 38 kV bayonet fuses 120A 15 kV bayonet fuses 230A 38 kV partial-range CLF 100A x 2 15 kV partial-range CLF 180A x 2 2  Standard Accessories Liquid level gauge with alarm contacts Included Uiguid temperature indicator with alarm contacts Included Oif fload tap changer Pressure vacuum gauge with alarm contacts Included Oif filling tube Included Oif filling tube Included Oif filling tube Included Oif filling tube Included Filling tube Included Filling tube Included Oif with sampler Finctosure protection degree NEMA Type 35 Total weight 25753 lb 11500 kg (approx.) Coatings RAL 7035 Operating temperature range -22°F to +104°F / -30°C to +40°C Operating humidity 0 0 95% Operating altitude 3280 ft / 1000 m   optional: 6560 ft / 2000 m) Dimentions 4800 (W) x2476 (H) x2200 (D)  Safety Certifications and standards UL certified to IEEE CS7.12.20, IEEE CS7.12.29, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty Standard  Varianty	Cooling class	KNAN		
Insulating fluid Biodegradable oil, FR3 type or equivalent High-voltage conductor material Aluminum Voltage taps 2-2.5% taps above, and 2-2.5% taps below nominal voltage High-voltage bushing 600A, 35 kV deadbreak bushing, 150 kV BIL (quantity: 6) Low-voltage bushing 4 holes, blade type 4515 A, 30 kV BIL (quantity: 6) Low-voltage bushing 630A 2-position load-break switch Load-break switching 630A 2-position load-break switch 10ad-break switch 15 kV bayonet fuses 230A 38 kV bayonet fuses 120A 15 kV bayonet fuses 230A 38 kV partial-range CLF 100A x 2 15 kV partial-range CLF 180A x 2 2 15 kV partial-range CLF 180A x 2 15 k	Number of windings	2		
High-voltage conductor material  Voltage taps  2-2.5% taps above, and 2-2.5% taps below nominal voltage High-voltage bushing 600A, 35 kV deadbreak bushing, 150 kV BIL (quantity: 6)  Low-voltage bushing 4 holes, blade type 4515 A, 30 kV BIL High-voltage configuration Load-break switching 630A 2-position load-break switch 38 kV bayonet fuses 120A 15 kV bayonet fuses 230A 38 kV partial-range CLF 100A x 2  Standard Accessories Liquid level gauge with alarm contacts Liquid level gauge with alarm contacts Liquid temperature indicator with alarm contacts Included Off-load tap changer Pressure vacuum gauge with alarm contacts Included Off-liging tube Off-liging tube Included Nitrogen blanket Included Finduded Fin	Electrostatic shielding	Electrostatic shield between high-voltage and low-voltage windings (2 windings)		
Voltage taps  2-2.5% taps above, and 2-2.5% taps below nominal voltage High-voltage bushing 600A, 35 kV deadbreak bushing, 150 kV BIL (quantity: 6) Low-voltage bushing 4 holes, blade type 4515 A, 30 kV BIL High-voltage configuration Load-break switching 630A 2-position load-break switch  38 kV bayonet fuses 120A 38 kV partial-range CLF 100A x 2 15 kV partial-range CLF 180A x 2  Standard Accessories Liquid level gauge with alarm contacts Liquid level gauge with alarm contacts Liquid temperature indicator with alarm contacts Pressure vacuum gauge with alarm contacts Included Off-load tap changer Pressure relief valve Oil filling tube Included Drain valve with sampler Nitrogen blanket Environment Enclosure protection degree Total weight Coatings RAL 7035 Operating temperature range Operating humidity Operating altitude Diamentions  4800(W) x 2476 (H) x 2200 (D)  Safety  Certifications and standards  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C2273, C227.4  Warranty  Standard  4 holes, blade type 4515 A, 30 kV BIL Liquid temperature range A-2.5% taps above, and 2-2.5% taps below to moninal voltage A bush in the dead front Coatings Can / CSA-C2273, C227.4  Warranty  Standard  3 year	Insulating fluid	Biodegradable oil, FR3 type or equivalent		
High-voltage bushing 600A, 35 kV deadbreak bushing, 150 kV BIL (quantity: 6)  Low-voltage bushing 4 holes, blade type 4515 A, 30 kV BIL High-voltage configuration Loop-feed, dead front Load-break switching 630A 2-position load-break switch Overcurrent protection 38 kV bayonet fuses 120A 15 kV bayonet fuses 230A 38 kV partial-range CLF 100A x 2 15 kV partial-range CLF 180A x 2  Standard Accessories  Liquid level gauge with alarm contacts Liquid temperature indicator with alarm contacts Liquid temperature indicator with alarm contacts Included Off-load tap changer Pressure relief valve Olif filling tube Drain valve with sampler Nitrogen blanket Environment  Enclosure protection degree Total weight Coatings RAL 7035 Operating temperature range Operating lemperature range Operating lattude Diamentions  UL certified to IEEE CS7.12.00, IEEE CS7.12.28, IEEE CS7.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard  Bild valve vith sampler Standard	High-voltage conductor material	Aluminum		
Low-voltage bushing 4 holes, blade type 4515 A, 30 kV BIL High-voltage configuration Loop-feed, dead front Cad-break switching 630A 2-position load-break switch  38 kV bayonet fuses 120A 15 kV bayonet fuses 230A 38 kV bayonet fuses 120A 15 kV bayonet fuses 230A 38 kV partial-range CLF 100A x 2 15 kV partial-range CLF 180A x 2  Standard Accessories  Liquid level gauge with alarm contacts Liquid temperature indicator with alarm contacts Liquid temperature indicator with alarm contacts Pressure vacuum gauge with alarm contacts Off-load tap changer Pressure relief valve Oil filling tube Included Oil filling tube Included Oil filling tube Included Nitrogen blanket Included Nitrogen blanket Enclosure protection degree NEMA Type 3S Total weight Coatings RAL 7035 Operating temperature range Operating humidity Operating humidity Operating altitude 3280 ft / 1000 m (optional: 6560 ft / 2000 m) Dimentions  Safety  Certifications and standards  UL certified to IEEE CS7.12.00, IEEE CS7.12.28, IEEE CS7.12.90, CSA C2.1-06, CAN / CSA-C2273, C2274  Warranty  Standard	Voltage taps	2-2.5% taps above, and 2-2.5% taps below nominal voltage		
High-voltage configuration Load-break switching Overcurrent protection Overcurrent protection  Standard Accessories  Liquid level gauge with alarm contacts Liquid temperature indicator with alarm contacts Liquid temperature indicator with alarm contacts Liquid temperature indicator with alarm contacts Included Off-load tap changer Pressure vacuum gauge with alarm contacts Off-load tap changer Pressure relief valve Oil filling tube Colling tube Nitrogen blanket Included Nitrogen blanket Included Nitrogen blanket Included Note off-load tap changer Note off-load tap contacts Note off-load tap contacts Note off-load tap contacts Note off-load tap contacts Note off-load tap changer Note off	High-voltage bushing	600A, 35 kV deadbreak bushing, 150 kV BIL (quantity: 6)		
Load-break switching Overcurrent protection Overcurrent protection  38 kV bayonet fuses 120A 38 kV partial-range CLF 100A x 2 15 kV bayonet fuses 230A 38 kV partial-range CLF 100A x 2 15 kV partial-range CLF 180A x 2  Standard Accessories  Liquid level gauge with alarm contacts Liquid level gauge with alarm contacts Liquid temperature indicator with alarm contacts Pressure vacuum gauge with alarm contacts Included Off-load tap changer Pressure relief valve Oil filling tube Included Oil filling tube Included Oil filling tube Included Nitrogen blanket Included Nitrogen blanket Included  Environment  Enclosure protection degree NEMA Type 35 Total weight 25353 lb/11500 kg (approx.) Coatings Operating temperature range -22°F to +104°F /-30°C to +40°C Operating humidity Operating altitude Diperating altitude 3280 ft/1000 m (optional: 6560 ft/2000 m) Dimentions  A800(W)x2476(H)x2200(D)  Safety  Certifications and standards  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard	Low-voltage bushing	4 holes, blade type 4515 A , 30 kV BIL		
Overcurrent protection  38 kV bayonet fuses 120A 38 kV partial-range CLF 100A x 2  Standard Accessories  Liquid level gauge with alarm contacts Liquid temperature indicator with alarm contacts Liquid temperature indicator with alarm contacts Liquid temperature indicator with alarm contacts Included Off-load tap changer Included Off-load tap changer Included Oil filling tube Included Drain valve with sampler Nitrogen blanket Included Included Included Included Included Included Included Included Included Oil filling tube Included	High-voltage configuration	Loop-feed, dead front		
Standard Accessories	Load-break switching	·		
Standard Accessories       Liquid level gauge with alarm contacts     Included       Liquid temperature indicator with alarm contacts     Included       Pressure vacuum gauge with alarm contacts     Included       Off-load tap changer     Included       Pressure relief valve     Included       Oil filling tube     Included       Drain valve with sampler     Included       Nitrogen blanket     Included       Environment     NEMA Type 35       Total weight     25353 lb / 11500 kg (approx.)       Coatings     RAL 7035       Operating temperature range     -22°F to +104°F / -30°C to +40°C       Operating themperature range     -22°F to +104°F / -30°C to +40°C       Operating altitude     3280 ft / 1000 m (optional: 6560 ft / 2000 m)       Dimentions     4800(W)x2476(H)x2200(D)       Safety       Certifications and standards     UL certified to IEEE C57.12.09, IEEE C57.12.28, IEEE C57.12.99, CSA C2.1-06, CAN / CSA-C227.3, C227.4       Warranty       Standard     3 year	Overcurrent protection		·	
Liquid temperature indicator with alarm contacts  Pressure vacuum gauge with alarm contacts  Off-load tap changer  Pressure relief valve  Oil filling tube  Drain valve with sampler  Nitrogen blanket  Environment  Enclosure protection degree  Total weight  Coatings  Operating temperature range  Operating humidity  Operating altitude  Dianent  Safety  Certifications and standards  Included  Included  NEMA Type 3S  NEMA Type 3S  NEMA Type 3S  NEMA Type 3S  AL 7035  NEMA Type 3S  Operating (approx.)  Coatings  AL 7035  Operating temperature range  Oto 95%  Operating temperature range  Oto 95%  Operating altitude  3280 ft / 1000 m (optional: 6560 ft / 2000 m)  Dimentions  A800(W)x2476(H)x2200(D)  Safety  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4	Standard Accessories	30 KV partial large CE 100/CX 2	13 KV partial range CE 100/1 X 2	
Liquid temperature indicator with alarm contacts  Pressure vacuum gauge with alarm contacts  Off-load tap changer  Pressure relief valve  Oil filling tube  Drain valve with sampler  Nitrogen blanket  Environment  Enclosure protection degree  Total weight  Coatings  Operating temperature range  Operating humidity  Operating altitude  Dianent  Safety  Certifications and standards  Included  Included  NEMA Type 3S  NEMA Type 3S  NEMA Type 3S  NEMA Type 3S  AL 7035  NEMA Type 3S  Operating (approx.)  Coatings  AL 7035  Operating temperature range  Oto 95%  Operating temperature range  Oto 95%  Operating altitude  3280 ft / 1000 m (optional: 6560 ft / 2000 m)  Dimentions  A800(W)x2476(H)x2200(D)  Safety  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4	Liquid level gauge with alarm contacts	Included		
Pressure vacuum gauge with alarm contacts Off-load tap changer Pressure relief valve Included Oil filling tube Included Oil filling tube Included Drain valve with sampler Included Nitrogen blanket Included  Environment  Enclosure protection degree NEMA Type 3S Total weight 25353 lb / 11500 kg (approx.) Coatings RAL 7035 Operating temperature range -22°F to +104°F / -30°C to +40°C Operating humidity 0 to 95% Operating altitude 3280 ft / 1000 m (optional: 6560 ft / 2000 m) Dimentions  Safety Certifications and standards UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty Standard 3 year				
Pressure relief valve Oil filling tube Included Drain valve with sampler Nitrogen blanket Included Nitrogen blanket Included  Environment  Enclosure protection degree NEMA Type 3S Total weight 25353 lb / 11500 kg (approx.) Coatings RAL 7035 Operating temperature range Pressure range Pressur				
Oil filling tube Drain valve with sampler Nitrogen blanket Included Nitrogen blanket Included  Environment  Enclosure protection degree NEMA Type 3S Total weight 25353 lb / 11500 kg (approx.) Coatings RAL 7035 Operating temperature range -22°F to +104°F /-30°C to +40°C Operating humidity 0 to 95% Operating altitude 3280 ft / 1000 m (optional: 6560 ft / 2000 m) Dimentions 4800 (W) x2476 (H) x2200 (D)  Safety Certifications and standards UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty Standard 3 year	Off-load tap changer			
Drain valve with sampler  Nitrogen blanket  Environment  Enclosure protection degree  NEMA Type 3S  Total weight  Coatings  Operating temperature range Operating humidity Operating altitude Dimentions  Safety  Certifications and standards  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard  Included	Pressure relief valve	Included		
Nitrogen blanket  Environment  Enclosure protection degree  NEMA Type 3S  Total weight  Coatings  RAL 7035  Operating temperature range  Operating humidity  Operating altitude  Dimentions  Safety  Certifications and standards  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard  Standard  Included  NEMA Type 3S  NEMA Type 3S  25353 lb / 11500 kg (approx.)  RAL 7035  Operating degree  -22°F to +104°F / -30°C to +40°C  0 to 95%  Operating altitude  3280 ft / 1000 m (optional: 6560 ft / 2000 m)  4800(W) x 2476 (H) x 2200 (D)  Safety  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4	Oil filling tube	Included		
Enclosure protection degree  NEMA Type 3S  Total weight  25353 lb / 11500 kg (approx.)  Coatings  RAL 7035  Operating temperature range  -22°F to +104°F/-30°C to +40°C  Operating humidity  0 to 95%  Operating altitude  3280 ft / 1000 m (optional: 6560 ft / 2000 m)  Dimentions  4800(W)x2476(H)x2200(D)  Safety  Certifications and standards  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard  3 year	Drain valve with sampler	Included		
Enclosure protection degree  NEMA Type 3S  Total weight  25353 lb / 11500 kg (approx.)  Coatings  RAL 7035  Operating temperature range  -22°F to +104°F / -30°C to +40°C  Operating humidity  0 to 95%  Operating altitude  3280 ft / 1000 m (optional: 6560 ft / 2000 m)  Dimentions  4800(W)x2476(H)x2200(D)  Safety  Certifications and standards  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard  3 year	Nitrogen blanket	Included		
Total weight 25353 lb / 11500 kg (approx.)  Coatings RAL 7035  Operating temperature range -22°F to +104°F / -30°C to +40°C  Operating humidity 0 to 95%  Operating altitude 3280 ft / 1000 m (optional: 6560 ft / 2000 m)  Dimentions 4800(W)x2476(H)x2200(D)  Safety  Certifications and standards UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard 3 year	Environment			
Coatings  RAL 7035  Operating temperature range  -22°F to +104°F/-30°C to +40°C  Operating humidity  0 to 95%  Operating altitude  3280 ft / 1000 m (optional: 6560 ft / 2000 m)  Dimentions  4800(W)x2476(H)x2200(D)  Safety  Certifications and standards  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard  3 year	Enclosure protection degree	NEMA Type 3S		
Operating temperature range  Operating humidity  Oto 95%  Operating altitude  Operating altitude  Dimentions  Safety  Certifications and standards  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard  3 year	Total weight	25353 lb / 11500 kg (approx.)		
Operating humidity Operating altitude 3280 ft / 1000 m (optional: 6560 ft / 2000 m) Dimentions 4800(W)x2476(H)x2200(D)  Safety Certifications and standards UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty Standard 3 year	Coatings	RAL 7035		
Operating altitude         3280 ft / 1000 m (optional: 6560 ft / 2000 m)           Dimentions         4800 (W) x 2476 (H) x 2200 (D)           Safety           UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4           Warranty           Standard         3 year	Operating temperature range	-22°F to +104°F / -30°C to +40°C		
Dimentions         4800(W)x2476(H)x2200(D)           Safety         UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4           Warranty         Standard         3 year	Operating humidity	0 to 95%		
Safety  Certifications and standards  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard  3 year	Operating altitude	3280 ft / 1000 m (optional: 6560 ft / 2000 m)		
Certifications and standards  UL certified to IEEE C57.12.00, IEEE C57.12.28, IEEE C57.12.90, CSA C2.1-06, CAN / CSA-C227.3, C227.4  Warranty  Standard  3 year	Dimentions	4800(W)x2476(H)x2200(D)		
Certifications and standards  CAN / CSA-C227.3, C227.4  Warranty  Standard  3 year	Safety			
Standard 3 year	Certifications and standards			
,	Warranty			
Extended terms 5 years	Standard	3	year	
	Extended terms	5 years		