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TS 880 – Mission Critical ATS

UL 1008/ CSA 178 Certified, 800-4000 AMP Single & 3 Phase, 600V Max

The TS 880 Automatic Transfer Switches provide industry leading performance ratings for “mission critical” applications.

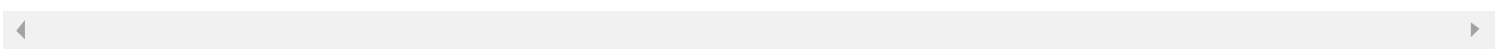
- Available from 800 amp to 4000 amp, up to 600 volt.
- 3 and 30 cycle short circuit current ratings for electrical system coordination.
- Options include Open or Closed-Transition, Isolation Bypass, Dual Utility/Gen Source and Service Entrance Rated.
- Easy to use TSC 800 ATS controller providing system flexibility and operator interface.
- Remote Communications available.
- UL 1008 / CSA 22.2 No. 178 Listed



[Ratings](#) [Features](#) [Options](#) [Support Material](#) [Ordering Information](#)

Ratings

Name	Default Value
Amperage Range	100A - 4000A
Voltage Range	208 - 600V
Poles	2, 3 or 4
Frequency	50/60Hz
Power Distribution	Single Phase, 3 wire or 3 Phase, 4 wire
Controller	TSC 800
Standard Enclosure	Nema 1
Safety Standard	UL 1008 , CSA C22.2 No. 178
Quality Assurance	ISO 9001 Registered
Warranty	1 Year





Ratings **Features** Options Support Material Ordering Information

Features

Amperage Range:	100A - 4000A
Voltage Range:	208 - 600V
Poles:	2, 3 or 4
Frequency:	50/60Hz
Power Distribution:	Single Phase, 3 wire or 3 Phase, 4 wire
Controller:	TSC 800
Standard Enclosure:	Nema 1
Safety Standard:	UL 1008 , CSA C22.2 No. 178
Quality Assurance:	ISO 9001 Registered
Warranty:	2 Year

Enclosed Contact Power Switching Units

- fully enclosed silver alloy contacts provide high withstand rating & 100% continuous current rating
- 3 cycle short circuit current withstand tested
- completely separate utility and generator side power switching units
- power switching units can incorporate over current protection, allowing cost savings in upstream devices
- not damaged if manually switched while in service

Reliable Motor-Operated Transfer Mechanism

- heavy duty brushless gear motor and operating mechanism provide mechanical interlocking and extreme long life
- safe manual operation permits easy operation

Superior Serviceability

- all mechanical and control devices are visible and readily accessible Control Features
- TSC 800 microprocessor based controller with comprehensive features
- isolation plug permits disconnecting control circuits from all power sources

Quality Assurance

- ISO 9001 Registered

Product Data

- Models available from 100 - 4000 Amp continuous
- Available 2, 3 or 4 pole
- All models 50/60Hz rated
- Voltage range 208 - 600
- 3 Phase, 3 or 4 wire systems

Seismic Certification: TS 880 ATS is certified for installation and operation per the following requirements:

- IBC 2006 – Section 13, Occupancy Category IV
- ASCE7-05 Region 3 (minimum SS=342%)

Safety Standards

- UL 1008
- CSA C22.2 No. 178
- SEISMIC Certification - IBC 2006 - Section 13, Occupancy Category IV. ASCE7-05 Region 3 (Minimum SS = 342%)

ORDERING INFORMATION

When placing an order, specify the following 21 digit ATS MODEL CODE as per the features and applications described below.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	
T	S		8	8																	

1-3. SERIES

TS – TRANSFER SWITCH

4 & 5. MODEL

88 – 880 SWITCH

6. POLES

2 – 2 POLE

3 – 3 POLE

4 – 4 POLE

7. CONFIGURATION TYPE

A – ATS

B – BYPASS/ISOLATION ATS

X – SPECIAL

8-11. AMPERAGE

0100

0150

0200¹

0250

0400

0600

0800

1000

1200

1600

2000

2500

3000

4000

12. APPLICATION

A – STANDARD

B – SERVICE ENTRANCE

C – DUAL SOURCE

X – SPECIAL

13. OPERATION TYPE

1 – OPEN TRANSITION

2 – MANUAL ELEC. OP.

3 – CLOSED TRANSITION (MOMENTARY)

4 – CLOSED TRANSITION (SOFT LOAD)

X – SPECIAL

14. SAFETY STANDARD

A – UL 1008 (Service Entrance)

B – CSA C22.2. No. 178

C – UL 1008 / CSA 178

X – NOT APPLICABLE

15. VOLTAGE

1Ø 3 WIRE

D – 120/240

3Ø 4 WIRE (GROUNDED NEUTRAL)

E – 120/208¹

F – 127/220

G – 120/240¹ (DELTA)

H – 220/380²

15. VOLTAGE (CONT'D)

S – 230/400³

J – 240/416

K – 254/440

M – 277/480¹

N – 347/600¹

3Ø 3 WIRE

P – 208

Q – 220

R – 240

U – 416

V – 480

W – 600

X – SPECIAL

16. CONTROLLER

2 – TSC 800

7 – NONE (MANUAL)

17. ENCLOSURE TYPE

A – NEMA 1, ASA #61 GREY

B – NEMA 2, ASA #61 GREY

C – NEMA 12, ASA #61 GREY

D – NEMA 3R SD, ASA #61 GREY

E – NEMA 3R DD, ASA #61 GREY

F – NEMA 3RX/4X DD

(304 STAINLESS STEEL)⁴

G – NONE (OPEN STYLE)

H – NEMA 4X SD (304 STAINLESS STEEL)

K – NEMA 4X SD (316 STAINLESS STEEL)

L – NEMA 3RX/4X DD (316 STAINLESS STEEL)⁴

X – SPECIAL

18. UTILITY SWITCHING DEVICE

K – MOLDED CASE SWITCH 100-1200A

M – MOLDED CASE SWITCH C/W

THER-MAG TRIP (100-200A)

N – MOLDED CASE SWITCH C/W

ELECTRONIC TRIP (250-1200A)

P – MOLDED CASE SWITCH C/W

ELECTRONIC & GF TRIP (250-1200A)

Q – INSULATED CASE, FIX-MOUNT

SWITCH (800A-4000A)

R – INSULATED CASE, FIX-MOUNT

SWITCH C/W ELECTRONIC TRIP

(800-4000A)

T – INSULATED CASE, FIX-MOUNT

SWITCH C/W ELECTRONIC & GF TRIP

(800-4000A)

U – INSULATED CASE, DRAW-OUT

SWITCH (800-4000A)

V – INSULATED CASE, DRAW-OUT

SWITCH C/W ELECTRONIC TRIP

(800-4000A)

W – INSULATED CASE, DRAW-OUT

SWITCH C/W ELECTRONIC & GF

TRIP (800-4000A)

X – SPECIAL

19. GENERATOR SWITCHING DEVICE

K – MOLDED CASE SWITCH (100-1200A)

M – MOLDED CASE SWITCH C/W

THER-MAG TRIP (100-200A)

N – MOLDED CASE SWITCH C/W

ELECTRONIC TRIP (250-1200A)

P – MOLDED CASE SWITCH C/W

ELECTRONIC & GF TRIP (250-1200A)

Q – INSULATED CASE, FIX-MOUNT

SWITCH (800A-4000A)

R – INSULATED CASE, FIX-MOUNT

SWITCH C/W ELECTRONIC TRIP

(800-4000A)

T – INSULATED CASE, FIX-MOUNT

SWITCH C/W ELECTRONIC & GF TRIP

(800-4000A)

U – INSULATED CASE, DRAW-OUT

SWITCH (800-4000A)

V – INSULATED CASE, DRAW-OUT

SWITCH C/W ELECTRONIC TRIP

(800-4000A)

W – INSULATED CASE, DRAW-OUT

SWITCH C/W ELECTRONIC & GF

TRIP (800-4000A)

X – SPECIAL

20. POWER CONNECTIONS

A – STANDARD

X – SPECIAL

21. ATS CONNECTION CONFIGURATION⁵

A – STANDARD

B – ALTERNATE B (400-1200A)

C – ALTERNATE C (400-1200A)

D – ALTERNATE D (400-1200A)

E – ALTERNATE E (800-4000A)

F – ALTERNATE F (800-4000A)

G – ALTERNATE G (800-4000A)

X – SPECIAL

NOTES:

¹ MULTI-VOLTAGE CAPABLE

² FOR 50HZ APPLICATION

³ STANDARD ENCLOSURE RATING IS N3R AT 800A AND ABOVE AND N4 AT 600A AND BELOW.

⁴ ONLY AVAILABLE 800A AND ABOVE.

⁵ 240V MAX

⁶ FOR BYPASS SWITCH APPLICATIONS REFER TO FACTORY.