

3SAQ1, CB class, up to 63 A

Independent power supply with build-in power source, directly draws power from the incoming end to avoid the risk of protection function failure caused by supply failure.



- Small size with simple structure
- Easy operation, long service life
- Both 3P and 4P are available
- Single electric drive, smooth and noise-free, small impact
- With mechanical interlock and electrical interlock, reliable switching, both manual and automatic switching are available
- Switch is wired with connection terminal in the internal for users, reflecting the circuit breaker status (open or closed)
- There are a variety of indicators listed on panel

Features

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Structure and Performance

Structure

The automatic transfer switch consists of MCB, a single electric motor operating mechanism, mechanical interlocking, auxiliary systems, control circuit and other components and are closed with plastic shell. All components are installed on the same floor. There is a status indicator on the panel that accurately indicates the state of the MCB and the whole set of instructions.

Structure

- Automatic controllers (only R-type: automatic transfer with automatic restore) detect the voltage of two-way power (commonly used power and backup power) at the same time. Common power will work under the normal state. When the common power supply failure occurs, namely loss of pressure or A phase-off, the controller will automatically make the command switch switch to the backup power supply;
- When common power is restored to normal, the controller will automatically make the command switch switch to the backup power supply, and no delay;
- Simultaneous two-way power anomalies are not allowed;
- When tripping occurs due to a small circuit breaker failure, the device will remain in the trip state and let out a warning signal. Wait for maintenance, and the handle should be reset and re-closed manually after troubleshooting;
- In automatic mode, when there inputs DC 24 V fire signal, the controller will command all the disconnect switch, and then if undo the fire signal, restore the original state.

Instruction of Type Code

Алматы (7273) 495-231
Ангарск (3955) 60-70-56
Архангельск (8182) 63-90-72
Астрахань (8512) 99-46-04
Барнаул (3852) 73-04-60
Белгород (4722) 40-23-64
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Владикавказ (8672) 28-90-48
Владимир (4922) 49-43-18
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Вологда (8172) 26-41-59
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Иркутск (395) 279-98-46
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Калининград (4012) 72-03-81
Калуга (4842) 92-23-67
Кемерово (3842) 65-04-62
Киров (8332) 68-02-04
Коломна (4966) 23-41-49
Кострома (4942) 77-07-48
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Красноярск (391) 204-63-61
Курск (4712) 77-13-04
Курган (3522) 50-90-47
Липецк (4742) 52-20-81

Магнитогорск (3519) 55-03-13
Москва (495) 268-04-70
Мурманск (8152) 59-64-93
Набережные Челны (8552) 20-53-41
Нижний Новгород (831) 429-08-12
Новокузнецк (3843) 20-46-81
Новыйорск (3496) 41-32-12
Новосибирск (383) 227-86-73
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Ставрополь (8652) 20-65-13
Сургут (3462) 77-98-35
Сыктывкар (8212) 25-95-17
Тамбов (4752) 50-40-97
Тверь (4822) 63-31-35

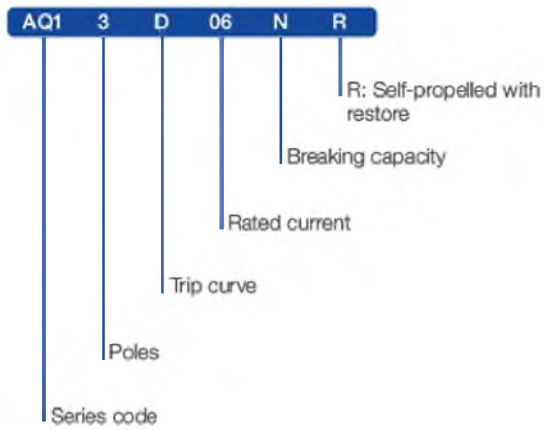
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Чита (3022) 38-34-83
Якутск (4112) 23-90-97
Ярославль (4852) 69-52-93

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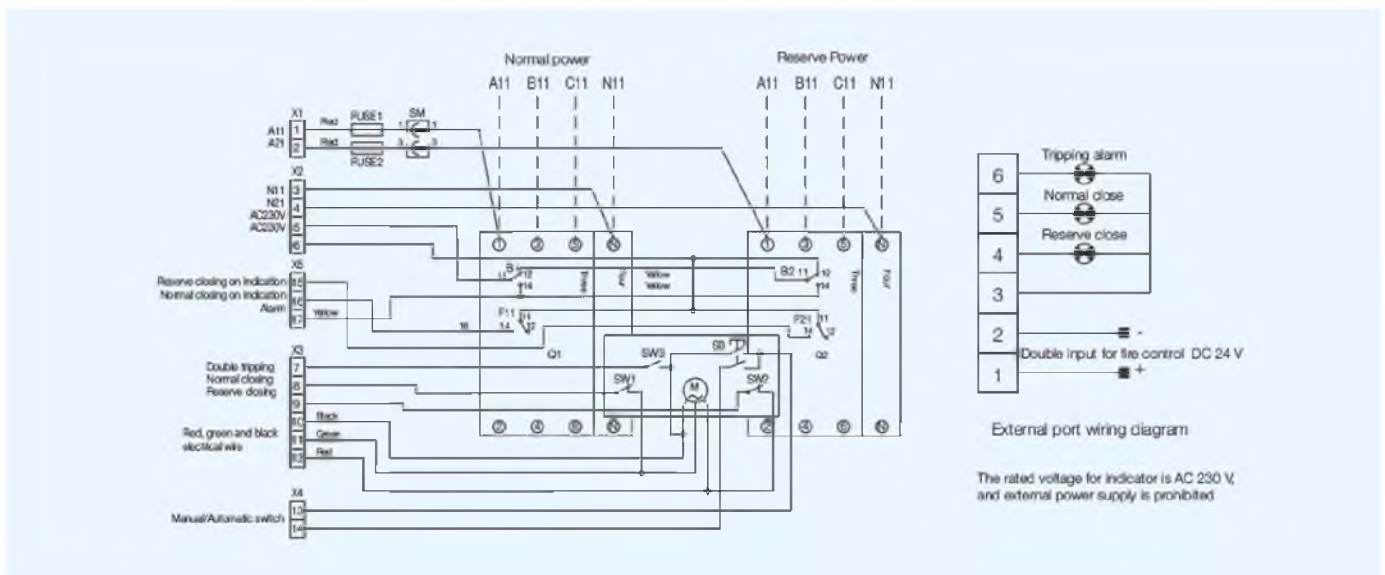


- There is only R type for 3SAQ1 series ATS at present
- Automatic transfer with automatic restore: If deviation of common power is monitored, ATS will automatically switch the load from the common power to backup power; if the power returns to normal, it will automatically return to common power supply

Technical Specifications

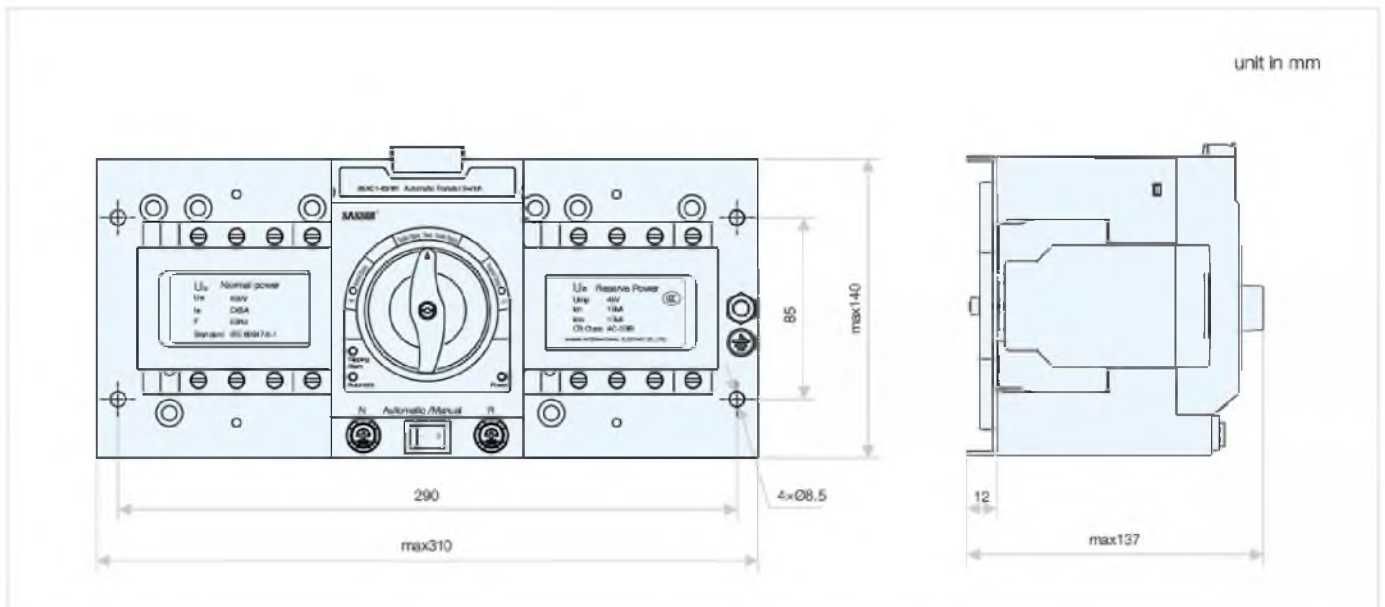
| | |
|--|-----------------------------------|
| Type | 3SAQ1-63 |
| Execution circuit breaker | 3SB71-63 |
| Number of poles (P) | 3, 4 |
| Rated operating current (A) | 6, 10, 16, 20, 25, 32, 40, 50, 63 |
| Rated operating voltage (VAC) | 230/400 |
| Rated control voltage (VAC) | 230 |
| Rated insulation voltage (VAC) | 500 |
| Rated ultimate short circuit breaking capacity at 400V AC (kA) | 6 10 |
| Rated short circuit making capacity (kA) | 17 |
| Use category | AC-33iB |
| Mechanical life (times) | 10,000 |
| Electrical life (times) | 4,000 |
| Ambient temperature | -5 ~ 40 °C, max. 95% humidity |
| Storage temperature | -40 ~ +75 °C |
| Altitude (Max.) | 2,000 |

Wiring Diagram



- a) Q1, Q2: MCB (Double points for the location of the icon)
 F21, B2: The right auxiliary and alarm head of circuit breaker
 SW1: Common closing limit switch in place
 SW3: Double points limit switch in place FUSE1, FUSE2: Fuses
 SM: Three-pin connector
- b) Dotted line is for the user to connect and the remaining for factory, for user's reference
 F11, B1: The right auxiliary and alarm head of circuit breaker
 M: Electric motor
 SW2: Backup closing limit switch in place X1 X2 X3 X4 X5: Connectors
 SB: Rocker Switch

Outline and Installation Dimensions



Selection and Ordering Data

| Rated breaking capacity (kA) | Poles (p) | Rated current (A) | Curve B | | Curve C | | Curve D | | | |
|------------------------------|------------|-------------------|------------|------------|------------|------------|------------|------------|------------|-------|
| | | | Type code | Order code | Type code | Order code | Type code | Order code | | |
| 6 | 3 | 6 | AQ1 3B06NR | 19809 | AQ1 3C06NR | 19818 | AQ1 3D06NR | 19827 | | |
| | | 10 | AQ1 3B10NR | 19810 | AQ1 3C10NR | 19819 | AQ1 3D10NR | 19828 | | |
| | | 16 | AQ1 3B16NR | 19811 | AQ1 3C16NR | 19820 | AQ1 3D16NR | 19829 | | |
| | | 20 | AQ1 3B20NR | 19812 | AQ1 3C20NR | 19821 | AQ1 3D20NR | 19830 | | |
| | | 25 | AQ1 3B25NR | 19813 | AQ1 3C25NR | 19822 | AQ1 3D25NR | 19831 | | |
| | | 32 | AQ1 3B32NR | 19814 | AQ1 3C32NR | 19823 | AQ1 3D32NR | 19832 | | |
| | | 40 | AQ1 3B40NR | 19815 | AQ1 3C40NR | 19824 | AQ1 3D40NR | 19833 | | |
| | | 50 | AQ1 3B50NR | 19816 | AQ1 3C50NR | 19825 | AQ1 3D50NR | 19834 | | |
| | | 63 | AQ1 3B63NR | 19817 | AQ1 3C63NR | 19826 | AQ1 3D63NR | 19835 | | |
| | 4 | 6 | AQ1 4B06NR | 19836 | AQ1 4C06NR | 19845 | AQ1 4D06NR | 19854 | | |
| | | 10 | AQ1 4B10NR | 19837 | AQ1 4C10NR | 19846 | AQ1 4D10NR | 19855 | | |
| | | 16 | AQ1 4B16NR | 19838 | AQ1 4C16NR | 19847 | AQ1 4D16NR | 19856 | | |
| | | 20 | AQ1 4B20NR | 19839 | AQ1 4C20NR | 19848 | AQ1 4D20NR | 19857 | | |
| | | 25 | AQ1 4B25NR | 19840 | AQ1 4C25NR | 19849 | AQ1 4D25NR | 19858 | | |
| | | 32 | AQ1 4B32NR | 19841 | AQ1 4C32NR | 19850 | AQ1 4D32NR | 19859 | | |
| | | 40 | AQ1 4B40NR | 19842 | AQ1 4C40NR | 19851 | AQ1 4D40NR | 19860 | | |
| | | 50 | AQ1 4B50NR | 19843 | AQ1 4C50NR | 19852 | AQ1 4D50NR | 19861 | | |
| | | 63 | AQ1 4B63NR | 19844 | AQ1 4C63NR | 19853 | AQ1 4D63NR | 19862 | | |
| | | 10 | 3 | 6 | AQ1 3B06HR | 19755 | AQ1 3C06HR | 19764 | AQ1 3D06HR | 19773 |
| | | | | 10 | AQ1 3B10HR | 19756 | AQ1 3C10HR | 19765 | AQ1 3D10HR | 19774 |
| | | | | 16 | AQ1 3B16HR | 19757 | AQ1 3C16HR | 19766 | AQ1 3D16HR | 19775 |
| 20 | AQ1 3B20HR | | | 19758 | AQ1 3C20HR | 19767 | AQ1 3D20HR | 19776 | | |
| 25 | AQ1 3B25HR | | | 19759 | AQ1 3C25HR | 19768 | AQ1 3D25HR | 19777 | | |
| 32 | AQ1 3B32HR | | | 19760 | AQ1 3C32HR | 19769 | AQ1 3D32HR | 19778 | | |
| 40 | AQ1 3B40HR | | | 19761 | AQ1 3C40HR | 19770 | AQ1 3D40HR | 19779 | | |
| 50 | AQ1 3B50HR | | | 19762 | AQ1 3C50HR | 19771 | AQ1 3D50HR | 19780 | | |
| 63 | AQ1 3B63HR | | | 19763 | AQ1 3C63HR | 19772 | AQ1 3D63HR | 19781 | | |
| 4 | 6 | | AQ1 4B06HR | 19782 | AQ1 4C06HR | 19791 | AQ1 4D06HR | 19800 | | |
| | 10 | | AQ1 4B10HR | 19783 | AQ1 4C10HR | 19792 | AQ1 4D10HR | 19801 | | |
| | 16 | | AQ1 4B16HR | 19784 | AQ1 4C16HR | 19793 | AQ1 4D16HR | 19802 | | |
| | 20 | | AQ1 4B20HR | 19785 | AQ1 4C20HR | 19794 | AQ1 4D20HR | 19803 | | |
| | 25 | | AQ1 4B25HR | 19786 | AQ1 4C25HR | 19795 | AQ1 4D25HR | 19804 | | |
| | 32 | | AQ1 4B32HR | 19787 | AQ1 4C32HR | 19796 | AQ1 4D32HR | 19805 | | |
| | 40 | | AQ1 4B40HR | 19788 | AQ1 4C40HR | 19797 | AQ1 4D40HR | 19806 | | |
| | 50 | | AQ1 4B50HR | 19789 | AQ1 4C50HR | 19798 | AQ1 4D50HR | 19807 | | |
| | 63 | | AQ1 4B63HR | 19790 | AQ1 4C63HR | 19799 | AQ1 4D63HR | 19808 | | |



Utilization Categories

- AC-33iB: for system loads including cage motor and resistive loads
- AC-33B: for motor load or mixture load including motors, resistive load and 30% incandescent load
- Standard: IEC 60947-6-1

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