MR1152035 (92j:05024) 05B07
Calahan, Rebecca S.; **Gardner, Robert B. [Gardner, Robert Bentley]**
3-transrotational Steiner triple systems.
Proceedings of the Twenty-second Southeastern Conference on Combinatorics, Graph Theory, and Computing (Baton Rouge, LA, 1991).
Congr. Numer. **81** (1991), 65–67.

Summary: "A Steiner triple system of order v, denoted STS(v), is said to be k-transrotational if it admits an automorphism consisting of a fixed point, a transposition, and k cycles of length $(v-3)/k$. We show that a 3-transrotational STS(v) exists if and only if $v \equiv 3, 9$ or $15 \pmod{24}$."

{For the collection containing this paper see MR1152028}